U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT
CONTRACT DACA21-92-D-0002, DELIVERY ORDER #0101

CLOSURE REPORT

USED OIL TANK REMOVAL
BUILDING 1720, TANK 22
FACILITY ID NUMBER: 9-089011*2
FT. STEWART, GEORGIA

PREPARED BY:

ANDERSON COLUMBIA ENVIRONMENTAL, INC.

OCTOBER 1996

P.O. Box 1386, Lake City, Florida 32056-1386
Phone: (904) 755-1196 Fax: (904) 758-9050

US Army Corps of Engineers

Delivery Order 0101

Ft. Stewart, Hinesville, Georiga

Underground Storage Tank Removal and Closure

Table of Contents

Prepared by

Anderson Columbia Enviornmental, Inc.

TAB 1

GEORGIA CLOSURE REPORT FORMS

Georgia Department of Natural Resources

Environmental Protection Division
Underground Storage Tank Management Program
4244 International Parkeay, Suite 104, Atlanta, Georgia 30354
Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
(404) 362-2687

CLOSURE REPORT FORM

Please complete the following form, include the listed items and check all of the boxes that apply. This form can be used as a Closure Report, provided documentation is attached when specified, to substantiate the information on this form, as outlined in the guidance document "So You Want to Close an UST?" (GUST-9). If one of the items does not apply to your tank closure, please provide a written explanation for the omission. If soil was excavated and disposed of, be sure to complete the applicable sections and attach the proper disposal documents.

1. Owner of UST System:

Name:	US Army/Ft. Stewart		
Phone Number:	(912) 767-2010/1234		
Company:	US Army		
Address:	Cdr. 3rd Inf. Div. (Mech.), Attn: AFZP-DEV, Bldg. 1139		
	Ft. Stewart	GA	31314-5000
	(city)	(state)	(zip code)

I hereby certify that the information contained in this Closure Report and in all the attachments is true, accurate, and complete, and the Closure Report satisfies all criteria and requirements of Rule 391-3-15-.09 of the Georgia Rules for Underground Storage Tank Management.

Resubmitted: Thomas C. Fry Date: 03/03/99
Signature: ORIGINAL SIGNED Date: Nov 1996

2. UST System Site Location:

Facility Name:	Ft. Stewart, GA FAC 1720		
Street Address:	FAC 1720		
	Ft. Stewart	GA	31314-5000
	(city)	(state)	(zip code)
Facility ID#	9-089011 #2		

3. Contract Certification:

I hereby certify that I have performed or supervised the work detailed in this report, and have examined and am familiar with the information submitted in this and all attached documents. The submitted information is, to the best of knowledge, true, accurate, complete, and in accordance with the Georgia Rules for Underground Storage Tank Management, revised February, 1995.

Name: David F. Black
Address: PO Box 1386 Lake City, Florida 32056

Signature: Date: 10/16/96

4. Site-specific Hydrogeology:

Depth to Groundwater >12 ft. if encountered

☐ Not Applicable

5. Site Map: Include the following items on an attached site map: **REFER TO TAB 5**

- Tank Pit Area
- Sewer Lines (if present)
- Sample Locations (with sample numbers and depths)
- Scale 1/4 in = 1 ft
- Piping Trenches
- Water Lines
- North Arrow
- Dispensers
- Tanks with thier ID#s, corresponding to the Notification Form 7530-1

6. Tank Removal

- Date of Removal: 1-Jul-96
- Tank Information:

Tank #	Tank Size (gallons)	Tank Contents
22	2000	Waste Oil

(This information should correspond to the 7530-1 Form.)

- Attach Amended Notification Form 7530-1 **REFER TO TAB 6**
- Describe Soil Sampling Procedures (and groundwater, if encountered):

REFER TO TAB 6

7. Laboratory Analytical Data: The following items must be included on attached copies **REFER TO TAB 7**

- Laboratory Method
- Dectection Limits
- Date of Sampling
- Signed Chain of Custody
- Date of Analysis
- Quality Control Data

8. Regulated Substance Released: Check the applicable box(es).

☐ Gasoline ☐ Diesel ☐ Kerosene ☒ Used Oil ☐ Other _____

9. Excavation and Treatment/Disposal of Contaminated Soil:

- Attach Soil Disposal Manifests
- Volume of Soil Excavated (less than 6 ft from USTs and 4 ft from piping or dispenser islands)

34.63 Tons OR _____ yd^3

☐ Not Applicable

10. Local Water Resources: Attach documentation only if Table B Soil Threshold Values and/or in-Stream Water Quality Standards are proposed for soil disposal, or No Further Action Required status. Check the applicable box(es).

[ ] Drinking water supplies are NOT located in:
High or average groundwater pollution susceptibility area:*
Public water systems within 2.0 miles and
Non-public water systems within 0.5 mile

OR

Low groundwater pollution susceptibility area:*
Public water systems within 1.0 mile and
Non-public water systems within 0.25 mile

* As defined by the Groundwater Pollution Susceptibility Map of Georgia

[ ] Streams, Lakes, and Ponds:
Distance to closest surface water body: _____ mile(s) or _____ feet

[X] Not Applicable **SEE TAB 7**

11. Conclusions or Recommendations: Choose one.

[ ] Clean Closure, thus No Further Action is Required.

[X] Soil Excavated within the Limits Specified in Question 7 (GUST-9) and Transported to an EPD Treatment/Disposal Facility, Thus No Further Action is Required.

TAB 4

SITE PHOTOGRAPHS

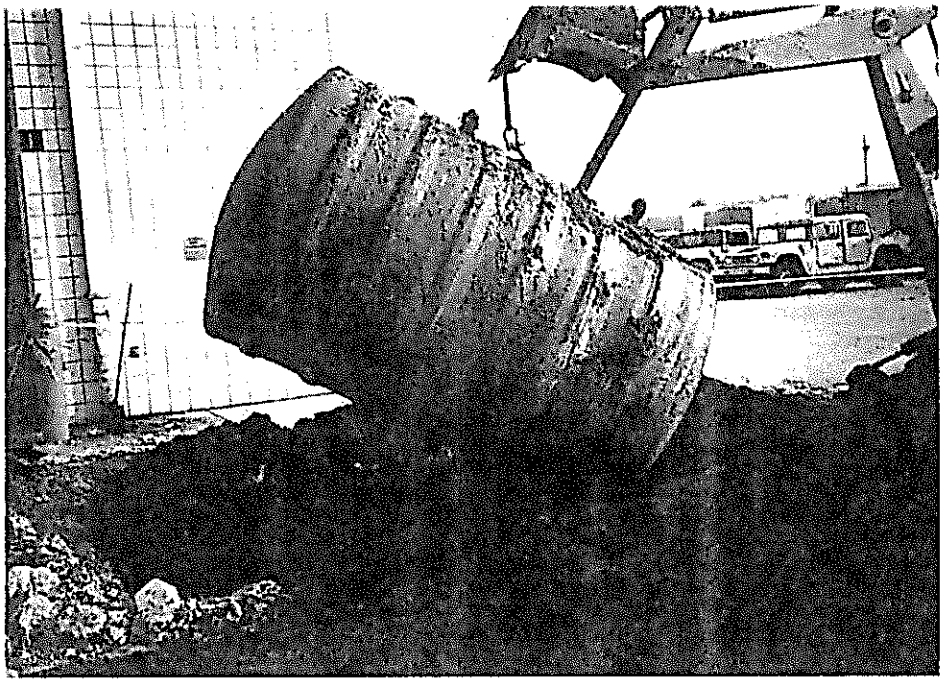


Photo 1. Tank 22 being removed from the tank pit.

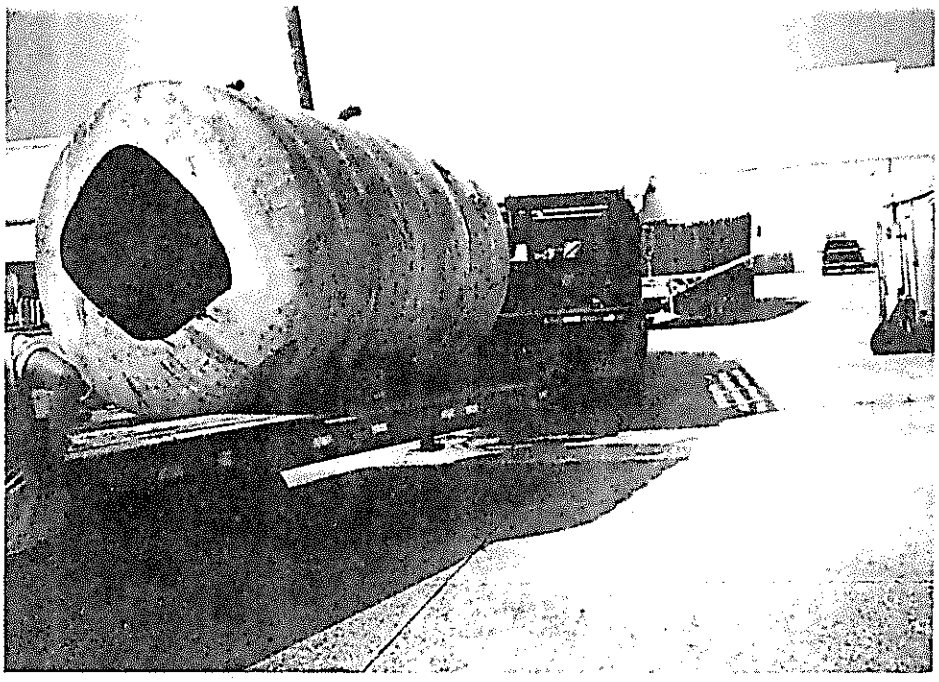
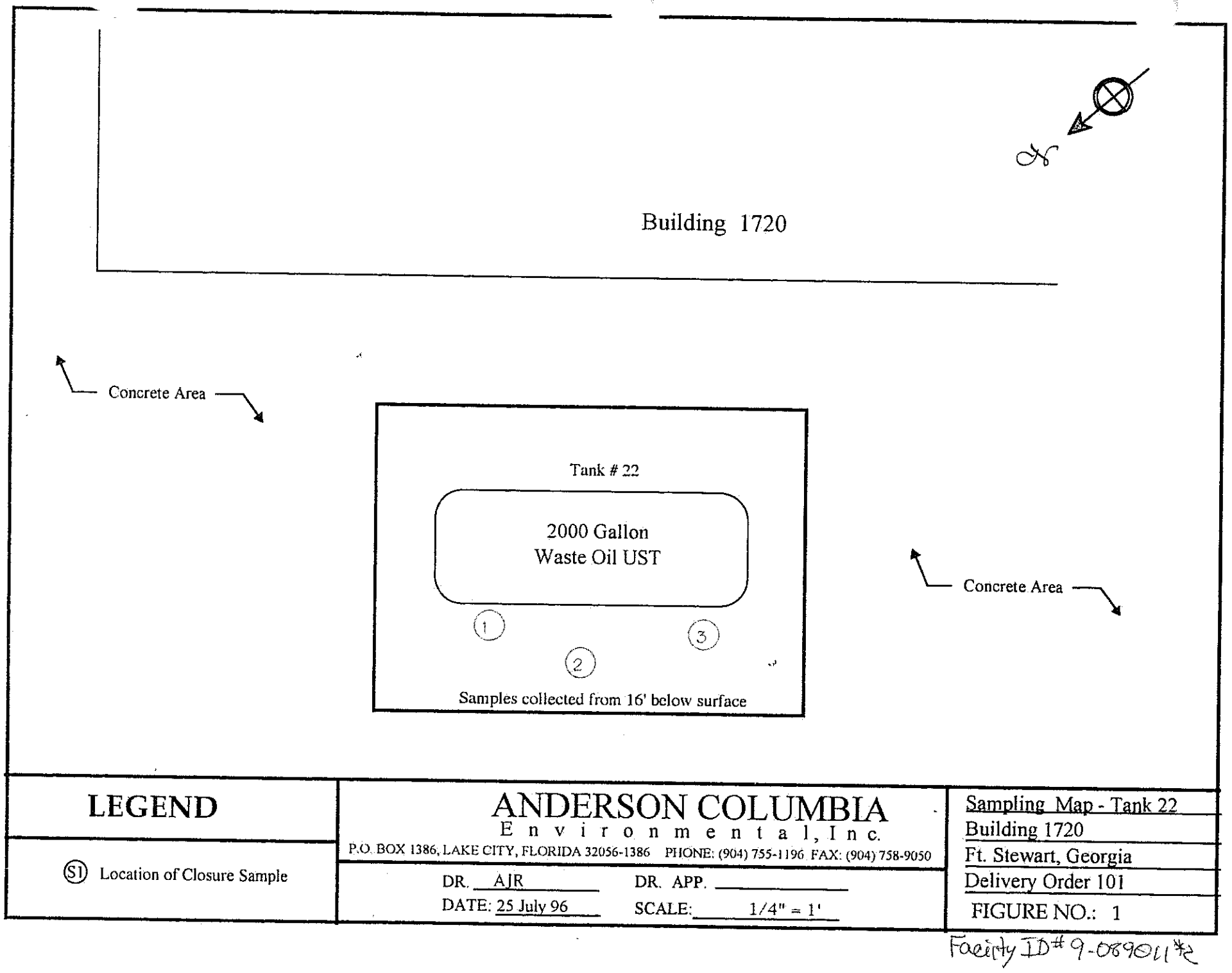


Photo 2. Tank 22 cut, cleaned and loaded for disposal.

TAB 5

SITE MAPS



LEGEND

(S1) Location of Closure Sample

ANDERSON COLUMBIA
Environmental, Inc.
P.O. BOX 1386, LAKE CITY, FLORIDA 32056-1386 PHONE: (904) 755-1196 FAX: (904) 758-9050

DR. AJR DR. APP. _____
DATE: 25 July 96 SCALE: 1/4" = 1'

Sampling Map - Tank 22
Building 1720
Ft. Stewart, Georgia
Delivery Order 101
FIGURE NO.: 1

Facility ID# 9-089011*2

TAB 6

EPA FORM 7530-1
&
FIELD ASSESSMENT METHODS

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

state use only

Part I: Facility Data

FACILITY ID NUMBER: 9-089011

OWNER'S ID: 197

INITIAL DATE RECEIVED: 5/6/86

DATE AMENDED LAST: _____

NOTIFICATION TYPE: [ ] New [X] Amended [X] Closure

OWNERSHIP OF TANK (S): **NUMBER OF TANK (S):** 1

Name : US ARMY/FT STEWART
Mailing Address : HQ 3RD INF DIV (M), AFZP-DEV/BLDG 1139
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
Phone : 912-767-1071 County: LIBERTY

LOCATION OF TANK (S):

Name : FT STEWART/FAC 1720
Street Address : FAC 1720
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
County : LIBERTY Latitude: _____ Longitude: _____
Phone : _____

OWNER TYPE: [X] Federal [ ] State [ ] Local [ ] Commercial [ ] Private

FACILITY TYPE (S):

[ ] Gas Station	[ ] Local Government	[ ] Contractor
[ ] Petroleum Dist	[ ] State Government	[ ] Truck/Transport
[ ] Air Tax (Airport)	[ ] Fed Non-Military	[ ] Utilities
[ ] Aircraft Owner	[X] Fed Military	[ ] Farm
[ ] Auto Dealership	[ ] Commercial	[ ] Residential
[ ] Railroad	[ ] Industrial	[ ] Other
[ ] Hospital	[ ] Educational	

CONTACT PERSON IN CHARGE OF TANK (S):

Name : US ARMY/FT STEWART Title: JOHN SPEAR/ENV ENG
Address : HQ 3RD INF DIV (M), AFZP-DEV/BLDG 1139
City : FT STEWART State: GEORGIA Zip Code: 31314-5000
Phone : 912-767-1071

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part I: Facility Data

FINANCIAL RESPONSIBILITY: **FACILITY ID NUMBER:**

☐ I meet the financial responsibility requirements of SS12-13-9 Official Code of Georgia Annotated by providing or participating in one of the following financial assurance mechanisms.

Primary Financial Responsibility Mechanism (check one)

☐ GUST Trust Fund	☐ Insurance
☐ Surety Bond	☐ Guarantee
☐ Letter of Credit	☐ Trust Fund (other than GUST)
☐ Risk Retention Group	☒ Other Method
☐ Self-insured	☐ None

If a primary coverage mechanism other than GUST Trust Fund is checked, provide the following information pursuant to GUST Rule 391-3-15-.12 (1):

Financial Responsibility Provider (primary):

Name: US Army Corps of Engineers

Address: HQ 3rd Inf. Div. (M) AFZP-DEV/BLDG 1139 City: Ft. Stewart State: GA

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

Deductible Financial Responsibility, if any: (check one)

Note: If your primary Financial Responsibility Mechanism is provided through participation in the GUST Trust Fund by payment of Environmental Assurance Fees, as required under GUST Rule 391-3-15-.13, you must also check one of the following boxes indicating how coverage for the GUST Trust Fund $10,000 deductible is being provided.

If your Financial Responsibility Mechanism is other than GUST Trust Fund and it has a deductible, you must also check one of the following boxes indicating how coverage for the deductible is being provided.

☐ Surety Bond	☐ Insurance
☐ Letter of Credit	☐ Guarantee
☐ Risk Retention Group	☐ Trust Fund (other than GUST)
☐ Self-insured	☐ Other Method

Provide the name and address of Financial Responsibility Provider for Deductible pursuant to GUST Rule 391-15-.12 (1):

Financial Responsibility Provider (deductible):

Name: _____

Address: _____ City: _____ State: _____

Mechanism Id Number: _____

Mechanism Anniversary Date: _____

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089011				
TANK ID	22				
Status of Tank					
Currently in Use	X				
Temp. Out of Use					
Perm. Out of Use					
Date of Installation	1-Jan-81				
Age	15				
Est. Total Capacity	2000				
MATERIAL OF CONSTRUCTION					
Asphalt or Bare Steel					
Cath. Protected Steel					
Epoxy Coated Steel					
Composite					
Fiberglass Reinf. Plas.	x				
Lined Interior					
Double Walled					
Poly. Tank Jacket					
Concrete					
Excavation Liner					
Unknown					
Other, Explanation					
Date Tank Repaired					
PIPING MATERIAL					
Bare Steel					
Galvanized Steel	x				
Fiberglass					
Copper					
Cathodically Protected					
Double Walled					
Secondary Containment					
Unknown					
Other, Explanation					
Date Piping Installed					
Piping Type					
Suction: No Valve					
Suction: Valve					
Pressure					
Gravity Fed					
Date Piping Repaired					
Substance Stored in Tank					
Gasoline					
Diesel					
Gasohol					
Kerosene					
Heating Oil					
Used Oil	x				
Propane					
Empty					
Other, Explanation					

STATE OF GEORGIA
NOTIFICATION DATA FOR UNDERGROUND STORAGE TANK

Part II: Tank Data

FACILITY ID	9-089011									
TANK ID	22									
Substance Stored in Tank										
Hazardous Substance										
CERCLA Name										
CAS Number										
Mixture										
Mixture, Specification										
Out of Use/Chg. Ser.	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Est. Date Last Used	6-24-96	6-24-96								
Est. Date Closed	7-1-96	7-1-96								
Removed from Ground	X									
Closed in Ground		X								
Filled with Iner. Mat.										
Change in Service										
Site Assessment Compl.										
Leak Detected										
Installation										
Certified by Manufac.										
Certified by Imple. Agn.										
Inspected by Engineer										
Checklists Completed										
Another Allowed Method										
Method Description										
Certified by Imple. Agn.										
Inspected by Engineer										
Checklists Completed										
Another Allowed Method										
Method Description										
Release Detection	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping	Tank	Piping
Tank Tightness Testing										
Inventory Controls										
SIR										
Automatic Tank Guaging										
Inter. Mon./Double Wall										
Groundwater Monitoring										
Manual Tank Guaging										
Vapor Monitoring										
Inter. Mon./Sec. Cont.										
Auto. Line Leak Detect.										
Line Tightness Testing										
Other Method										
Other Description										
Spill and Overfill										
Date Overfill Device										
Date Spill Device										
Installer Certification										
Name										
Position										
Company										
Date										

TAB 6

FIELD ASSESSMENT METHODS (Tank Removal)

SOIL SAMPLE

Soil samples for analytical testing were collected by Anderson Columbia Environmental, Inc. (ACE) personnel two (2) feet below both ends of the excavated tank and from the side wall of the excavation. The soil samples were collected into precleaned, labeled laboratory sample bottles and immediately placed on ice. The samples were shipped under Chain of Custody to the Corps of Engineers contract laboratory, Ecosys Laboratory Services.

Soil samples for field screening were collected by ACE personnel from each side of the excavation and from the bottom of the excavated tank pit. Soil samples were collected at various intervals and soil vapors were withdrawn for volatile organic compounds (VOCs) with a Heath PORTA-FID II, Model No. 8000 Flame Ionization Detector (FID) fitted with a membrane filter. Calibration was performed prior to field sampling with a 100 ppm methane/air mixture.

FID readings of soil samples were collected by filling a clean glass jar one-half full with soil, capping the jar with clean aluminum foil and allowing conditions to equilibrate for approximately 15 minutes. The tip of the FID was then carefully inserted through the aluminum foil and an air sample from the jar's headspace was analyzed for total VOCs.

CLOSURE REPORT
UST #22, FACILITY ID. NO. 9-089011*2

CLOSURE OF PIPING
TAB 6

The undersigned certifies that the piping associated with former Tank #22, Building 1720, Facility Identification Number 9-089011*2, Fort Stewart, Georgia, was purged and cleaned by our contractor, Anderson Columbia Environmental, prior to abandoning the piping in-place. In-place closure consisted of placing an absorbent sock in the pipe and then grouting the ends.

The undersigned also certifies that the piping at this facility was associated with Tank #22, which was used for storage of waste oil. The piping was not greater than 25 feet. Therefore, in accordance with GUST Rules, sampling is not required.

Name: Thomas C. Fry Title: Acting Chief, Environmental & Natural Division

Signature: Thomas C. Fry Date: 03/03/99

TAB 7

ANALYTICAL DATA

TAB 7 - Laboratory Analytical Data

Delivery Order #101
Fort Stewart, Georgia
Tank Numbers 22
Building Number 1720

Method / **Sample ID** / *unit*	9073 **TRPH** ppm	9071A **TRPH** ppm	8020 **BTEX** ppb	8270B **Semi-Volatile Organics** ppb
22-T-1-S1		bdl	bdl	bdl
22-T-1-S2		bdl	bdl	bdl
22-T-1-S3		bdl	bdl	bdl
bdl= below method detection limits				

**Fort Stewart is in an area of 'High or Average Groundwater pollution susceptibility' and these tanks are within 1500 feet of a public water well (but greater than 500 feet from the well). Because values for the tank pit are all below the detection limits, Table A and Table B are not applicable.

34.63 tons of petroleum contaminated soil was removed from the Tank 22 pit.

Complete Data Package Follows

Table A

Petroleum Constituents and Soil Threshold Levels[a]

At UST corrective action sites where withdrawal points for public and non-public water supplies exist within distances defined in GUST Rule 391-3-15-.09(3):

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA[b] (Where public water supplies exist within 2.0 miles and/or non-public supplies exist within 0.5 miles)		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA[c] (Where public water supplies exist within 1.0 mile and/or non-public supplies exist within 0.25 mile)	
VOLATILE ORGANIC COMPOUNDS	≤500 feet to withdrawal point	>500 feet to withdrawal point	≤500 feet to withdrawal point	>500 feet to withdrawal point
Benzene[g]	0.005 mg/kg[d]	0.008 mg/kg	0.005 mg/kg[d]	0.71 mg/kg
Toluene	0.400 mg/kg	6.00 mg/kg	0.400 mg/kg	500.00 mg/kg
Ethylbenzene	0.370 mg/kg	10.00 mg/kg	0.500 mg/kg	140.00 mg/kg
Xylenes (total)	20.00 mg/kg	700.00 mg/kg	27.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Anthracene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Benz(a)anthracene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Benzo(a)pyrene	0.660 mg/kg[d]	N/A[e]	N/A[e]	N/A[e]
Benzo(b)fluoranthene	0.820 mg/kg[d,f]	N/A[e]	N/A[e]	N/A[e]
Benzo(g,h,I)perylene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Benzo(k)fluoranthene	1.60 mg/kg[d,f]	N/A[e]	N/A[e]	N/A[e]
Chrysene	0.660 mg/kg[d]	N/A[e]	N/A[e]	N/A[e]
Dibenz(a,h)anthracene	1.50 mg/kg[d,f]	N/A[e]	N/A[e]	N/A[e]
Fluoranthene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Fluorene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg[d]	N/A[e]	0.660 mg/kg[d]	N/A[e]
Naphthalene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Phenanthrene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Pyrene	N/A[e]	N/A[e]	N/A[e]	N/A[e]

a - Based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.
b - Based on an assumed distance of 0.5 feet between contaminated soils and the water table.
c - Based on an assumed distance of 5.0 feet between contaminated soils and the water table.
d - Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.
e - Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.
f - In order to protect surface waters, the soil threshold level in Table B may supersede that found in Table A.
g - In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

Table B

Petroleum Constituents and Soil Threshold[a] Levels

At other UST corrective action sites where withdrawal points for public and non-public water supplies do not exist within distances defined in GUST Rule 391-3-15-.09(3):

CONSTITUENT	AVERAGE OR HIGHER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA[b]		LOWER GROUNDWATER POLLUTION SUSCEPTIBILITY AREA[c]	
VOLATILE ORGANIC COMPOUNDS	≤500 feet to surface water body	>500 feet to surface water body	≤500 feet to surface water body	>500 feet to surface water body
Benzene[f]	0.017 mg/kg	0.120 mg/kg	0.020 mg/kg	11.30 mg/kg
Toluene	115.00 mg/kg	500.00 mg/kg	135.00 mg/kg	500.00 mg/kg
Ethylbenzene	18.00 mg/kg	140.00 mg/kg	28.00 mg/kg	140.00 mg/kg
Xylenes (total)	700.00 mg/kg	700.00 mg/kg	700.00 mg/kg	700.00 mg/kg
POLYNUCLEAR AROMATIC HYDROCARBONS				
Acenaphthene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Anthracene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Benz(a)anthracene	0.660 mg/kg[d]	N/A[e]	N/A[e]	N/A[e]
Benzo(a)pyrene	0.660 mg/kg[d]	N/A[e]	N/A[e]	N/A[e]
Benzo(b)fluoranthene	0.660 mg/kg[d]	N/A[e]	N/A[e]	N/A[e]
Benzo(g,h,i)perylene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Benzo(k)fluoranthene	0.660 mg/kg[d]	N/A[e]	N/A[e]	N/A[e]
Chrysene	0.660 mg/kg[d]	N/A[e]	N/A[e]	N/A[e]
Dibenz(a,h)anthracene	0.660 mg/kg[d]	N/A[e]	N/A[e]	N/A[e]
Fluoranthene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Fluorene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Indeno(1,2,3-c,d)pyrene	0.660 mg/kg[d]	N/A[e]	0.660 mg/kg[d]	N/A[e]
Naphthalene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Phenanthrene	N/A[e]	N/A[e]	N/A[e]	N/A[e]
Pyrene	N/A[e]	N/A[e]	N/A[e]	N/A[e]

a - Based on worst-case assumptions for one-dimensional vadose zone and groundwater contaminant fate and transport models.
b - Based on an assumed distance of 0.5 feet between contaminated soils and the water table.
c - Based on an assumed distance of 5.0 feet between contaminated soils and the water table.
d - Estimated Quantitation Limit. The health-based threshold level is less than the laboratory method limit of detection.
e - Not applicable. The health-based threshold level exceeds the expected soil concentration under free product condition.
f - In the presence of other petroleum contaminants in concentrations exceeding 1.0 mg/kg, the Estimated Quantitation Limit, and hence the soil threshold level, may be substantially greater, as approved by EPD.

TRANSMITTAL OF SAD LABORATORY REPORT(S)

TO:	FROM:
US Army Corps of Engineers Savannah District CESAS-PM-H (Mr. Brent Rose) P. O. Box 889 Savannah, GA 31402-0889	Director (CESAD-ET-EL) SAD Laboratory USACE 611 South Cobb Drive Marietta, GA 30060-3112
PROJECT: Ft. Stewart	**MIPR NO:** PMS-96-109 **W.O. NO:** 7996

SUBJECT: Analytical Testing Results

1. Enclosed is our report of analytical test results and chain of custody forms for samples collected on 1 and 2 July 1996 from Ft. Stewart.

2. If you have any questions, please call Mr. Blaise Willis at 770/919-5295 me at 770/919-3990.

22 & 24

SUBMITTED BY:	SIGNATURE	DATE:
LLIAM L. TISON, P. E. rector, SAD Laboratory		20 Aug 96

South Atlantic Division Laboratory
U. S. Army Corps of Engineers
611 South Cobb Drive
Marietta, Georgia 30060-3112

District - SAVANNAH
Date Received - 96/07/09
Date Reported - 96/08/19 13:23:30

FT. STEWART ARMY AF
Requisition - PMS-96-109
Work Order - 7996 Job Number - 3996

Lab #	Field ID	Date Sampled	Time Sampled
29450	#118 T-1-S1	96/07/01	14:00

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	82.70	%	ECO	96/07/12
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/16
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/07/22
HEAVY FUEL ID (8015 MOD)	*		ECO	96/07/24

*NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Sheet 1 of 8

Lab #	Field ID	Date Sampled	Time Sampled
29451	#22 T-1-S1	96/07/01	17:30

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	83.50	%	ECO	96/07/12
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/16
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/07/19
TRPH	< 12.0	MG/KG	ECO	96/07/17

*NOTE: See Attached

Sampled by District Personnel

Checked by: _____

Signed by:

Blaise Willis

Blaise Willis
Chemist

Sheet 2 of 8

Lab #	Field ID	Date Sampled	Time Sampled
29452	#22 T-1-S2	96/07/01	17:40

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	85.70	%	ECO	96/07/12
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/16
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/07/20
TRPH	< 12.0	MG/KG	ECO	96/07/17

*NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

Sheet 3 of 8

Signed by:

Blaise Willis

Blaise Willis
Chemist

Lab #	Field ID	Date Sampled	Time Sampled
29453	#22 T-1-S3	96/07/01	17:50

Test Performed	Result	Units	Tested By	Test Date
TOTAL SOLIDS, % OF WET	84.70	%	ECO	96/07/12
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/16
SEMIVOLATILE ORGANICS GC/MS	*		ECO	96/07/22
TRPH	< 12.0	MG/KG	ECO	96/07/17

*NOTE: See Attached

Sampled by District Personnel

Checked by: DWS

Signed by:

Blaise Willis

Blaise Willis
Chemist

Sheet 4 of 8

Lab #	Field ID	Date Sampled	Time Sampled
29457	TRIP BLANK	96/07/02	00:00

Test Performed	Result	Units	Tested By	Test Date
AROMATIC VOLATILE ORGANICS	*		ECO	96/07/17

*NOTE: See Attached

Sampled by District Personnel

Checked by: JWS

Signed by:

Blaise Willis
Chemist

Temp # 1.6 °C

ANDERSON COLUMBIA

ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

806 # 3996

ECO

Floating in-water / 1

Page ___ of ___

Project No.: # 8101

Project Name: FT. Stewart

Samplers (Signature): Robert P. Ward Jr.

Sample Number	Date	Time	Grab	Comp.	Sample Location	No. of Containers	Preservative	8020	8270	8015 DRO	9073			Remarks:	
#118 T-1-S1	7-1-96	1400			Tank Pit	3	—	✓	✓	✓				Tank # 118	29450
#22 T-1-S1	7-1-96	1730			" "	3	—	✓	✓		✓			Tank # 22	51
#22 T-1-S2	7-1-96	1740			" "	3	—	✓	✓		✓				52
#22 T-1-S3	7-1-96	1750			" "	3		✓	✓		✓				53
#24 T-1-S1	7-2-96	820			" "	3		✓	✓		✓			Tank # 24	54
#24 T-1 S2	7-2-96	830			"	3		✓	✓		✓				55
#24 T-1 S3	7-2-96	840			"	3		✓	✓		✓				56
Trip Blank	7-2-96				DI Water	2		✓							57
Temp Vile	7-2-96				~~Water~~	1									

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Robert P. Ward Jr.	7-2-96 / 9:30	[signature]		7/9/96 0930	
Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Remarks:
Relinquished by:	Date / Time	Received by:			

SOUTH ATLANTIC DIVISION LABORATORY
SAMPLE RECEIVING AND COOLER RECEIPT DATA SHEET
CHEMICAL SECTION - Sample Log-In

DATE: 7/9/96

Number of coolers 1 Returned cooler(s) to: [illegible]

PROJECT: Ft. Stewart W.O.# [illegible] JOB# 3996

Coolers(s) opened by (print name) [illegible] (sign) [illegible]

1. Did cooler come with shipping slip? [✓] yes [ ] no
If yes, enter Tracking Number here 129 226 566 6

2. Were custody seals on out side of cooler? [✓] yes [ ] no
How many? 2 Date on seal(s) 7/8/96 Name on seal(s) [illegible]

3. Were custody seals unbroken upon receipt? [✓] yes [ ] no

4. Did you screen sample(s) for "Radioactivity"? [✓] yes [ ] no

5. Were custody papers filled out properly? (ink,signed,etc..) [✓] yes [ ] no

6. Temperature of sample(s) upon receipt: 16°

7. Describe cooler packing: 6 Samples Floating in Water

8. Did all sample containers arrive unbroken? [✓] yes [ ] no

9. Were the sample containers sealed in separate plastic bags? [✓] yes [ ] no

10. Were labels on containers in good condition and agree with Custody paper? [✓] yes [ ] no

11. Were correct containers used for the test(s) indicated? [✓] yes [ ] no

12. Were correct preservatives added to sample(s)? [ ] yes [ ] no [✓] unk

13. Was a sufficient amount of sample sent for test? [✓] yes [ ] no

14. Were bubbles absent in Volatile sample(s)? [✓] yes [ ] no [ ] N/A
If no, list field ID# _____

15. Numbers of days from sample date, samples received in Lab 5-6 days

16. Number of Samples: 8 Sample Type: [✓] soil [ ] water [ ] other _____

SAMPLE ANALYSIS PERFORMED BY: [illegible] TAT [illegible]

COMMENTS: _____

17. Did you sign custody papers in the appropriate place? [✓] yes [ ] no

LAB NUMBER(S): 29450 - 57

SIGNATURE: _____

ECOSYS
LABORATORY SERVICES

ANALYTICAL REPORT

1412 Oakbrook Drive
Suite 105
Norcross, Georgia 30093
Phone (770) 368-0636
Fax (770) 368-0806

Client Code	29112130
Ledger Number	107899
P.O. Number	
Date Received	07/10/96
Time Received	10:31
Reporting Date	08/16/96

USACE-SAD
Blaisdell Willis
611 South Cobb Drive
Marietta, GA 30060
P: 919-5270 F: 919-4977

Lab Sample ID	AB35667	**Client Site #**	29450
Project #	3996	**Client Sample #**	#118 T- 1-S1
Project Name	FT. STEWART		
Sampling Date/Time	07/01/96 14:00		

Sample Comment Results are reported on a dry weight basis.

SEMI (GC/MS) SOIL — **Prep Date** 07/16/96 — **Batch** 0717960002

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
8270B	PHENOL	$06013	*Below MDL*	399	ug/Kg	1.0	108-95-2	GH	07/22/96
8270B	BIS(2-CHLOROETHYL) ETHER	$06013	*Below MDL*	399	ug/Kg	1.0	111-44-4	GH	07/22/96
8270B	2-CHLOROPHENOL	$06013	*Below MDL*	399	ug/Kg	1.0	95-57-8	GH	07/22/96
8270B	1,3-DICHLOROBENZENE	$06013	*Below MDL*	399	ug/Kg	1.0	541-73-1	GH	07/22/96
8270B	1,4-DICHLOROBENZENE	$06013	*Below MDL*	399	ug/Kg	1.0	106-46-7	GH	07/22/96
8270B	1,2-DICHLOROBENZENE	$06013	*Below MDL*	399	ug/Kg	1.0	95-50-1	GH	07/22/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	$06013	*Below MDL*	399	ug/Kg	1.0	108-60-1	GH	07/22/96
8270B	2-METHYLPHENOL	$06013	*Below MDL*	399	ug/Kg	1.0	95-48-7	GH	07/22/96
8270B	4-METHYLPHENOL	$06013	*Below MDL*	399	ug/Kg	1.0	106-44-5	GH	07/22/96
8270B	N-NITROSODI-N-PROPYLAMINE	$06013	*Below MDL*	399	ug/Kg	1.0	621-64-7	GH	07/22/96
8270B	HEXACHLOROETHANE	$06013	*Below MDL*	399	ug/Kg	1.0	67-72-1	GH	07/22/96
8270B	NITROBENZENE	$06013	*Below MDL*	399	ug/Kg	1.0	98-95-3	GH	07/22/96
8270B	ISOPHORONE	$06013	*Below MDL*	399	ug/Kg	1.0	78-59-1	GH	07/22/96
8270B	2-NITROPHENOL	$06013	*Below MDL*	798	ug/Kg	1.0	88-75-5	GH	07/22/96
8270B	2,4-DIMETHYLPHENOL	$06013	*Below MDL*	399	ug/Kg	1.0	105-67-9	GH	07/22/96
8270B	BIS(2-CHLOROETHOXY)METHANE	$06013	*Below MDL*	399	ug/Kg	1.0	111-91-1	GH	07/22/96
8270B	2,4-DICHLOROPHENOL	$06013	*Below MDL*	399	ug/Kg	1.0	120-83-2	GH	07/22/96
8270B	1,2,4-TRICHLOROBENZENE	$06013	*Below MDL*	399	ug/Kg	1.0	120-82-1	GH	07/22/96
8270B	NAPHTHALENE	$06013	*Below MDL*	399	ug/Kg	1.0	91-20-3	GH	07/22/96
8270B	4-CHLOROANILINE	$06013	*Below MDL*	399	ug/Kg	1.0	106-47-8	GH	07/22/96
8270B	HEXACHLOROBUTADIENE	$06013	*Below MDL*	399	ug/Kg	1.0	87-68-3	GH	07/22/96
8270B	4-CHLORO-3-METHYLPHENOL	$06013	*Below MDL*	798	ug/Kg	1.0	59-50-7	GH	07/22/96
8270B	2-METHYLNAPHTHALENE	$06013	*Below MDL*	399	ug/Kg	1.0	91-57-6	GH	07/22/96
8270B	HEXACHLOROCYCLOPENTADIENE	$06013	*Below MDL*	399	ug/Kg	1.0	77-47-4	GH	07/22/96
8270B	2,4,6-TRICHLOROPHENOL	$06013	*Below MDL*	399	ug/Kg	1.0	88-06-2	GH	07/22/96
8270B	2,4,5-TRICHLOROPHENOL	$06013	*Below MDL*	399	ug/Kg	1.0	95-95-4	GH	07/22/96
8270B	2-CHLORONAPHTHALENE	$06013	*Below MDL*	399	ug/Kg	1.0	91-58-7	GH	07/22/96

Lab Sample ID AB35667 **Client Site #** 29450
Project # 3996 **Client Sample #** #118 T- 1-S1
Project Name FT. STEWART
Sampling Date/Time 07/01/96 14:00

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
BTEX (GC) SOIL					**Prep Date** 07/15/96			**Batch** 071596BS	
8020A	BENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	71-43-2	DTA	07/16/96
8020A	TOLUENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-88-3	DTA	07/16/96
8020A	ETHYLBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	100-41-4	DTA	07/16/96
8020A	XYLENES (TOTAL)	$08006	*Below MDL*	1.2	ug/Kg	1.0	1330-20-7	DTA	07/16/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*50*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*46*	%	REC	1.0	460-00-4	DTA	07/16/96
8020A	CHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-90-7	DTA	07/16/96
8020A	1,2-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	95-50-1	DTA	07/16/96
8020A	1,3-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	541-73-1	DTA	07/16/96
8020A	1,4-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	106-46-7	DTA	07/16/96
8020A	TERT-METHYLBUTYL ETHER	$08006	*Below MDL*	1.2	ug/Kg	1.0	1634-04-4	DTA	07/16/96
TPH DRO (FID) SOIL					**Prep Date** 07/17/96			**Batch** 0718960002	
8015A	DIESEL RANGE ORGANICS (DRO)	$08009	*Below MDL*	12	mg/Kg	1.0		DTA	07/24/96
8015A	O-TERPHENYL (SURR)	$08009	*86*	%	REC	1.0		DTA	07/24/96
				Prep Date 07/12/96				**Batch** 071296	
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	*82.7*	0.1	%	1.0		MN	07/12/96

Lab Sample ID AB35668 **Client Site #** 29451
Project # 3996 **Client Sample #** #22 T- 1-S1
Project Name FT. STEWART
Sampling Date/Time 07/01/96 17:30

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
SEMI (GC/MS) SOIL					**Prep Date** 07/16/96			**Batch** 0717960002	
8270B	PHENOL	$06013	*Below MDL*	395	ug/Kg	1.0	108-95-2	GH	07/19/96
8270B	BIS(2-CHLOROETHYL) ETHER	$06013	*Below MDL*	395	ug/Kg	1.0	111-44-4	GH	07/19/96
8270B	2-CHLOROPHENOL	$06013	*Below MDL*	395	ug/Kg	1.0	95-57-8	GH	07/19/96
8270B	1,3-DICHLOROBENZENE	$06013	*Below MDL*	395	ug/Kg	1.0	541-73-1	GH	07/19/96
8270B	1,4-DICHLOROBENZENE	$06013	*Below MDL*	395	ug/Kg	1.0	106-46-7	GH	07/19/96
8270B	1,2-DICHLOROBENZENE	$06013	*Below MDL*	395	ug/Kg	1.0	95-50-1	GH	07/19/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	$06013	*Below MDL*	395	ug/Kg	1.0	108-60-1	GH	07/19/96
8270B	2-METHYLPHENOL	$06013	*Below MDL*	395	ug/Kg	1.0	95-48-7	GH	07/19/96
8270B	4-METHYLPHENOL	$06013	*Below MDL*	395	ug/Kg	1.0	106-44-5	GH	07/19/96
8270B	N-NITROSODI-N-PROPYLAMINE	$06013	*Below MDL*	395	ug/Kg	1.0	621-64-7	GH	07/19/96
8270B	HEXACHLOROETHANE	$06013	*Below MDL*	395	ug/Kg	1.0	67-72-1	GH	07/19/96
8270B	NITROBENZENE	$06013	*Below MDL*	395	ug/Kg	1.0	98-95-3	GH	07/19/96
	ISOPHORONE	$06013	*Below MDL*	395	ug/Kg	1.0	78-59-1	GH	07/19/96
8270B	2-NITROPHENOL	$06013	*Below MDL*	790	ug/Kg	1.0	88-75-5	GH	07/19/96
8270B	2,4-DIMETHYLPHENOL	$06013	*Below MDL*	395	ug/Kg	1.0	105-67-9	GH	07/19/96

Lab Sample ID	AB35668	**Client Site #**	29451
Project #	3996	**Client Sample #**	#22 T- 1-S1
Project Name	FT. STEWART		
Sampling Date/Time	07/01/96 17:30		

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
SEMI (GC/MS) SOIL						Prep Date 07/16/96		Batch 0717960002	
8270B	BIS(2-CHLOROETHOXY)METHANE	S06013	*Below MDL*	395	ug/Kg	1.0	111-91-1	GH	07/19/96
8270B	2,4-DICHLOROPHENOL	S06013	*Below MDL*	395	ug/Kg	1.0	120-83-2	GH	07/19/96
8270B	1,2,4-TRICHLOROBENZENE	S06013	*Below MDL*	395	ug/Kg	1.0	120-82-1	GH	07/19/96
8270B	NAPHTHALENE	S06013	*Below MDL*	395	ug/Kg	1.0	91-20-3	GH	07/19/96
8270B	4-CHLOROANILINE	S06013	*Below MDL*	395	ug/Kg	1.0	106-47-8	GH	07/19/96
8270B	HEXACHLOROBUTADIENE	S06013	*Below MDL*	395	ug/Kg	1.0	87-68-3	GH	07/19/96
8270B	4-CHLORO-3-METHYLPHENOL	S06013	*Below MDL*	790	ug/Kg	1.0	59-50-7	GH	07/19/96
8270B	2-METHYLNAPHTHALENE	S06013	*Below MDL*	395	ug/Kg	1.0	91-57-6	GH	07/19/96
8270B	HEXACHLOROCYCLOPENTADIENE	S06013	*Below MDL*	395	ug/Kg	1.0	77-47-4	GH	07/19/96
8270B	2,4,6-TRICHLOROPHENOL	S06013	*Below MDL*	395	ug/Kg	1.0	88-06-2	GH	07/19/96
8270B	2,4,5-TRICHLOROPHENOL	S06013	*Below MDL*	395	ug/Kg	1.0	95-95-4	GH	07/19/96
8270B	2-CHLORONAPHTHALENE	S06013	*Below MDL*	395	ug/Kg	1.0	91-58-7	GH	07/19/96
8270B	2-NITROANILINE	S06013	*Below MDL*	395	ug/Kg	1.0	88-74-4	GH	07/19/96
8270B	DIMETHYL PHTHALATE	S06013	*Below MDL*	395	ug/Kg	1.0	131-11-3	GH	07/19/96
8270B	ACENAPHTHYLENE	S06013	*Below MDL*	395	ug/Kg	1.0	208-96-8	GH	07/19/96
8270B	2,6-DINITROTOLUENE	S06013	*Below MDL*	395	ug/Kg	1.0	606-20-2	GH	07/19/96
8270B	3-NITROANILINE	S06013	*Below MDL*	395	ug/Kg	1.0	99-09-2	GH	07/19/96
8270B	ACENAPHTHENE	S06013	*Below MDL*	395	ug/Kg	1.0	83-32-9	GH	07/19/96
8270B	2,4-DINITROPHENOL	S06013	*Below MDL*	1976	ug/Kg	1.0	51-28-5	GH	07/19/96
8270B	4-NITROPHENOL	S06013	*Below MDL*	1976	ug/Kg	1.0	100-02-7	GH	07/19/96
8270B	DIBENZOFURAN	S06013	*Below MDL*	395	ug/Kg	1.0	132-64-9	GH	07/19/96
8270B	2,4-DINITROTOLUENE	S06013	*Below MDL*	395	ug/Kg	1.0	121-14-2	GH	07/19/96
8270B	DIETHYL PHTHALATE	S06013	*Below MDL*	395	ug/Kg	1.0	84-66-2	GH	07/19/96
8270B	4-CHLOROPHENYL PHENYL ETHER	S06013	*Below MDL*	395	ug/Kg	1.0	7005-72-3	GH	07/19/96
8270B	FLUORENE	S06013	*Below MDL*	395	ug/Kg	1.0	86-73-7	GH	07/19/96
8270B	4-NITROANILINE	S06013	*Below MDL*	395	ug/Kg	1.0	100-01-6	GH	07/19/96
8270B	2-METHYL-4,6-DINITROPHENOL	S06013	*Below MDL*	1976	ug/Kg	1.0	534-52-1	GH	07/19/96
8270B	N-NITROSODIPHENYLAMINE	S06013	*Below MDL*	395	ug/Kg	1.0	86-30-6	GH	07/19/96
8270B	4-BROMOPHENYL PHENYL ETHER	S06013	*Below MDL*	395	ug/Kg	1.0	101-55-3	GH	07/19/96
8270B	HEXACHLOROBENZENE	S06013	*Below MDL*	395	ug/Kg	1.0	118-74-1	GH	07/19/96
8270B	PENTACHLOROPHENOL	S06013	*Below MDL*	1976	ug/Kg	1.0	87-86-5	GH	07/19/96
8270B	PHENANTHRENE	S06013	*Below MDL*	395	ug/Kg	1.0	85-01-8	GH	07/19/96
8270B	ANTHRACENE	S06013	*Below MDL*	395	ug/Kg	1.0	120-12-7	GH	07/19/96
8270B	DI-N-BUTYL PHTHALATE	S06013	*Below MDL*	395	ug/Kg	1.0	84-74-2	GH	07/19/96
8270B	FLUORANTHENE	S06013	*Below MDL*	395	ug/Kg	1.0	206-44-0	GH	07/19/96
8270B	PYRENE	S06013	*Below MDL*	395	ug/Kg	1.0	129-00-0	GH	07/19/96
8270B	BUTYL BENZYL PHTHALATE	S06013	*Below MDL*	395	ug/Kg	1.0	85-68-7	GH	07/19/96
8270B	3,3'-DICHLOROBENZIDINE	S06013	*Below MDL*	790	ug/Kg	1.0	91-94-1	GH	07/19/96
8270B	BENZO(A)ANTHRACENE	S06013	*Below MDL*	395	ug/Kg	1.0	56-55-3	GH	07/19/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	S06013	*Below MDL*	395	ug/Kg	1.0	117-81-7	GH	07/19/96
8270B	CHRYSENE	S06013	*Below MDL*	395	ug/Kg	1.0	218-01-9	GH	07/19/96
8270B	DI-N-OCTYL PHTHALATE	S06013	*Below MDL*	395	ug/Kg	1.0	117-84-0	GH	07/19/96
8270B	BENZO(B)FLUORANTHENE	S06013	*Below MDL*	395	ug/Kg	1.0	205-99-2	GH	07/19/96
8270B	BENZO(K)FLUORANTHENE	S06013	*Below MDL*	395	ug/Kg	1.0	207-08-9	GH	07/19/96

Lab Sample ID	AB35668	**Client Site #**	29451
Project #	3996	**Client Sample #**	#22 T- 1-S1
Project Name	FT. STEWART		
Sampling Date/Time	07/01/96 17:30		

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
SEMI (GC/MS) SOIL					**Prep Date** 07/16/96		**Batch** 0717960002		
8270B	BENZO(A)PYRENE	$06013	*Below MDL*	395	ug/Kg	1.0	50-32-8	GH	07/19/96
8270B	INDENO(1,2,3-CD)PYRENE	$06013	*Below MDL*	395	ug/Kg	1.0	193-39-5	GH	07/19/96
8270B	DIBENZO(A,H)ANTHRACENE	$06013	*Below MDL*	395	ug/Kg	1.0	53-70-3	GH	07/19/96
8270B	BENZO(G,H,I)PERYLENE	$06013	*Below MDL*	395	ug/Kg	1.0	191-24-2	GH	07/19/96
8270B	2-FLUOROPHENOL (SURR)	$06013	*45*		% REC	1.0	367-12-4	GH	07/19/96
8270B	PHENOL-D5 (SURR)	$06013	*55*		% REC	1.0	13127-88-3	GH	07/19/96
8270B	NITROBENZENE-D5 (SURR)	$06013	*46*		% REC	1.0	4165-60-0	GH	07/19/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*59*		% REC	1.0	321-60-8	GH	07/19/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*62*		% REC	1.0	118-79-6	GH	07/19/96
8270B	TERPHENYL-D14 (SURR)	$06013	*62*		% REC	1.0	1718-51-0	GH	07/19/96
8270B	CARBAZOLE	$06013	*Below MDL*	395	ug/Kg	1.0	86-74-8	GH	07/19/96
BTEX (GC) SOIL					**Prep Date** 07/15/96		**Batch** 071596BS		
8020A	BENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	71-43-2	DTA	07/16/96
8020A	TOLUENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-88-3	DTA	07/16/96
8020A	ETHYLBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	100-41-4	DTA	07/16/96
8020A	XYLENES (TOTAL)	$08006	*Below MDL*	1.2	ug/Kg	1.0	1330-20-7	DTA	07/16/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*42*		% REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*26*		% REC	1.0	460-00-4	DTA	07/16/96
8020A	CHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-90-7	DTA	07/16/96
8020A	1,2-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	95-50-1	DTA	07/16/96
8020A	1,3-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	541-73-1	DTA	07/16/96
8020A	1,4-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	106-46-7	DTA	07/16/96
8020A	TERT-METHYLBUTYL ETHER	$08006	*Below MDL*	1.2	ug/Kg	1.0	1634-04-4	DTA	07/16/96
					Prep Date 07/17/96		**Batch** 071796B		
9071A	TRPH 9071A SOIL	08041	*Below MDL*	12	mg/Kg	1.0		ML	07/17/96
					Prep Date 07/12/96		**Batch** 071296		
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	*83.5*	0.1	%	1.0		MN	07/12/96

Lab Sample ID	AB35669	**Client Site #**	29452
Project #	3996	**Client Sample #**	#22 T- 1-S2
Project Name	FT. STEWART		
Sampling Date/Time	07/01/96 17:40		

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
SEMI (GC/MS) SOIL					**Prep Date** 07/16/96		**Batch** 0717960002		
	PHENOL	$06013	*Below MDL*	385	ug/Kg	1.0	108-95-2	GH	07/20/96
8270B	BIS(2-CHLOROETHYL) ETHER	$06013	*Below MDL*	385	ug/Kg	1.0	111-44-4	GH	07/20/96
8270B	2-CHLOROPHENOL	$06013	*Below MDL*	385	ug/Kg	1.0	95-57-8	GH	07/20/96

Lab Sample ID	AB35669	**Client Site #**	29452
Project #	3996	**Client Sample #**	#22 T- 1-S2
Project Name	FT. STEWART		
Sampling Date/Time	07/01/96 17:40		

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
SEMI (GC/MS) SOIL						Prep Date 07/16/96		Batch 0717960002	
8270B	1,3-DICHLOROBENZENE	S06013	*Below MDL*	385	ug/Kg	1.0	541-73-1	GH	07/20/96
8270B	1,4-DICHLOROBENZENE	S06013	*Below MDL*	385	ug/Kg	1.0	106-46-7	GH	07/20/96
8270B	1,2-DICHLOROBENZENE	S06013	*Below MDL*	385	ug/Kg	1.0	95-50-1	GH	07/20/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	S06013	*Below MDL*	385	ug/Kg	1.0	108-60-1	GH	07/20/96
8270B	2-METHYLPHENOL	S06013	*Below MDL*	385	ug/Kg	1.0	95-48-7	GH	07/20/96
8270B	4-METHYLPHENOL	S06013	*Below MDL*	385	ug/Kg	1.0	106-44-5	GH	07/20/96
8270B	N-NITROSODI-N-PROPYLAMINE	S06013	*Below MDL*	385	ug/Kg	1.0	621-64-7	GH	07/20/96
8270B	HEXACHLOROETHANE	S06013	*Below MDL*	385	ug/Kg	1.0	67-72-1	GH	07/20/96
8270B	NITROBENZENE	S06013	*Below MDL*	385	ug/Kg	1.0	98-95-3	GH	07/20/96
8270B	ISOPHORONE	S06013	*Below MDL*	385	ug/Kg	1.0	78-59-1	GH	07/20/96
8270B	2-NITROPHENOL	S06013	*Below MDL*	770	ug/Kg	1.0	88-75-5	GH	07/20/96
8270B	2,4-DIMETHYLPHENOL	S06013	*Below MDL*	385	ug/Kg	1.0	105-67-9	GH	07/20/96
8270B	BIS(2-CHLOROETHOXY)METHANE	S06013	*Below MDL*	385	ug/Kg	1.0	111-91-1	GH	07/20/96
8270B	2,4-DICHLOROPHENOL	S06013	*Below MDL*	385	ug/Kg	1.0	120-83-2	GH	07/20/96
8270B	1,2,4-TRICHLOROBENZENE	S06013	*Below MDL*	385	ug/Kg	1.0	120-82-1	GH	07/20/96
8270B	NAPHTHALENE	S06013	*Below MDL*	385	ug/Kg	1.0	91-20-3	GH	07/20/96
8270B	4-CHLOROANILINE	S06013	*Below MDL*	385	ug/Kg	1.0	106-47-8	GH	07/20/96
8270B	HEXACHLOROBUTADIENE	S06013	*Below MDL*	385	ug/Kg	1.0	87-68-3	GH	07/20/96
8270B	4-CHLORO-3-METHYLPHENOL	S06013	*Below MDL*	770	ug/Kg	1.0	59-50-7	GH	07/20/96
8270B	2-METHYLNAPHTHALENE	S06013	*Below MDL*	385	ug/Kg	1.0	91-57-6	GH	07/20/96
8270B	HEXACHLOROCYCLOPENTADIENE	S06013	*Below MDL*	385	ug/Kg	1.0	77-47-4	GH	07/20/96
8270B	2,4,6-TRICHLOROPHENOL	S06013	*Below MDL*	385	ug/Kg	1.0	88-06-2	GH	07/20/96
8270B	2,4,5-TRICHLOROPHENOL	S06013	*Below MDL*	385	ug/Kg	1.0	95-95-4	GH	07/20/96
8270B	2-CHLORONAPHTHALENE	S06013	*Below MDL*	385	ug/Kg	1.0	91-58-7	GH	07/20/96
8270B	2-NITROANILINE	S06013	*Below MDL*	385	ug/Kg	1.0	88-74-4	GH	07/20/96
8270B	DIMETHYL PHTHALATE	S06013	*Below MDL*	385	ug/Kg	1.0	131-11-3	GH	07/20/96
8270B	ACENAPHTHYLENE	S06013	*Below MDL*	385	ug/Kg	1.0	208-96-8	GH	07/20/96
8270B	2,6-DINITROTOLUENE	S06013	*Below MDL*	385	ug/Kg	1.0	606-20-2	GH	07/20/96
8270B	3-NITROANILINE	S06013	*Below MDL*	385	ug/Kg	1.0	99-09-2	GH	07/20/96
8270B	ACENAPHTHENE	S06013	*Below MDL*	385	ug/Kg	1.0	83-32-9	GH	07/20/96
8270B	2,4-DINITROPHENOL	S06013	*Below MDL*	1925	ug/Kg	1.0	51-28-5	GH	07/20/96
8270B	4-NITROPHENOL	S06013	*Below MDL*	1925	ug/Kg	1.0	100-02-7	GH	07/20/96
8270B	DIBENZOFURAN	S06013	*Below MDL*	385	ug/Kg	1.0	132-64-9	GH	07/20/96
8270B	2,4-DINITROTOLUENE	S06013	*Below MDL*	385	ug/Kg	1.0	121-14-2	GH	07/20/96
8270B	DIETHYL PHTHALATE	S06013	*Below MDL*	385	ug/Kg	1.0	84-66-2	GH	07/20/96
8270B	4-CHLOROPHENYL PHENYL ETHER	S06013	*Below MDL*	385	ug/Kg	1.0	7005-72-3	GH	07/20/96
8270B	FLUORENE	S06013	*Below MDL*	385	ug/Kg	1.0	86-73-7	GH	07/20/96
8270B	4-NITROANILINE	S06013	*Below MDL*	385	ug/Kg	1.0	100-01-6	GH	07/20/96
8270B	2-METHYL-4,6-DINITROPHENOL	S06013	*Below MDL*	1925	ug/Kg	1.0	534-52-1	GH	07/20/96
8270B	N-NITROSODIPHENYLAMINE	S06013	*Below MDL*	385	ug/Kg	1.0	86-30-6	GH	07/20/96
8270B	4-BROMOPHENYL PHENYL ETHER	S06013	*Below MDL*	385	ug/Kg	1.0	101-55-3	GH	07/20/96
8270B	HEXACHLOROBENZENE	S06013	*Below MDL*	385	ug/Kg	1.0	118-74-1	GH	07/20/96
8270B	PENTACHLOROPHENOL	S06013	*Below MDL*	1925	ug/Kg	1.0	87-86-5	GH	07/20/96
8270B	PHENANTHRENE	S06013	*Below MDL*	385	ug/Kg	1.0	85-01-8	GH	07/20/96

Lab Sample ID AB35669 **Client Site #** 29452

Project # 3996 **Client Sample #** #22 T- 1-S2

Project Name FT. STEWART

Sampling Date/Time 07/01/96 17:40

OD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
SEMI (GC/MS) SOIL						**Prep Date** 07/16/96		**Batch** 0717960002	
8270B	ANTHRACENE	$06013	*Below MDL*	385	ug/Kg	1.0	120-12-7	GH	07/20/96
8270B	DI-N-BUTYL PHTHALATE	$06013	*Below MDL*	385	ug/Kg	1.0	84-74-2	GH	07/20/96
8270B	FLUORANTHENE	$06013	*Below MDL*	385	ug/Kg	1.0	206-44-0	GH	07/20/96
8270B	PYRENE	$06013	*Below MDL*	385	ug/Kg	1.0	129-00-0	GH	07/20/96
8270B	BUTYL BENZYL PHTHALATE	$06013	*Below MDL*	385	ug/Kg	1.0	85-68-7	GH	07/20/96
8270B	3,3'-DICHLOROBENZIDINE	$06013	*Below MDL*	770	ug/Kg	1.0	91-94-1	GH	07/20/96
8270B	BENZO(A)ANTHRACENE	$06013	*Below MDL*	385	ug/Kg	1.0	56-55-3	GH	07/20/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	$06013	*Below MDL*	385	ug/Kg	1.0	117-81-7	GH	07/20/96
8270B	CHRYSENE	$06013	*Below MDL*	385	ug/Kg	1.0	218-01-9	GH	07/20/96
8270B	DI-N-OCTYL PHTHALATE	$06013	*Below MDL*	385	ug/Kg	1.0	117-84-0	GH	07/20/96
8270B	BENZO(B)FLUORANTHENE	$06013	*Below MDL*	385	ug/Kg	1.0	205-99-2	GH	07/20/96
8270B	BENZO(K)FLUORANTHENE	$06013	*Below MDL*	385	ug/Kg	1.0	207-08-9	GH	07/20/96
8270B	BENZO(A)PYRENE	$06013	*Below MDL*	385	ug/Kg	1.0	50-32-8	GH	07/20/96
8270B	INDENO(1,2,3-CD)PYRENE	$06013	*Below MDL*	385	ug/Kg	1.0	193-39-5	GH	07/20/96
8270B	DIBENZO(A,H)ANTHRACENE	$06013	*Below MDL*	385	ug/Kg	1.0	53-70-3	GH	07/20/96
8270B	BENZO(G,H,I)PERYLENE	$06013	*Below MDL*	385	ug/Kg	1.0	191-24-2	GH	07/20/96
8270B	2-FLUOROPHENOL (SURR)	$06013	*39*	%	REC	1.0	367-12-4	GH	07/20/96
8270B	PHENOL-D5 (SURR)	$06013	*44*	%	REC	1.0	13127-88-3	GH	07/20/96
	NITROBENZENE-D5 (SURR)	$06013	*44*	%	REC	1.0	4165-60-0	GH	07/20/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*45*	%	REC	1.0	321-60-8	GH	07/20/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*48*	%	REC	1.0	118-79-6	GH	07/20/96
8270B	TERPHENYL-D14 (SURR)	$06013	*58*	%	REC	1.0	1718-51-0	GH	07/20/96
8270B	CARBAZOLE	$06013	*Below MDL*	385	ug/Kg	1.0	86-74-8	GH	07/20/96
BTEX (GC) SOIL						**Prep Date** 07/15/96		**Batch** 071596BS	
8020A	BENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	71-43-2	DTA	07/16/96
8020A	TOLUENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-88-3	DTA	07/16/96
8020A	ETHYLBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	100-41-4	DTA	07/16/96
8020A	XYLENES (TOTAL)	$08006	*Below MDL*	1.2	ug/Kg	1.0	1330-20-7	DTA	07/16/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*81*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*80*	%	REC	1.0	460-00-4	DTA	07/16/96
8020A	CHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-90-7	DTA	07/16/96
8020A	1,2-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	95-50-1	DTA	07/16/96
8020A	1,3-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	541-73-1	DTA	07/16/96
8020A	1,4-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	106-46-7	DTA	07/16/96
8020A	TERT-METHYLBUTYL ETHER	$08006	*Below MDL*	1.2	ug/Kg	1.0	1634-04-4	DTA	07/16/96
						Prep Date 07/17/96		**Batch** 071796B	
9071A	TRPH 9071A SOIL	08041	*Below MDL*	12	mg/Kg	1.0		ML	07/17/96
						Prep Date 07/12/96		**Batch** 071296	
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	*85.7*	0.1	%	1.0		MN	07/12/96

Lab Sample ID	AB35670	**Client Site #**	29453
Project #	3996	**Client Sample #**	#22 T- 1-S3
Project Name	FT. STEWART		
Sampling Date/Time	07/01/96 17:50		

Sample Comment Results are reported on a dry weight basis.

SEMI (GC/MS) SOIL — Prep Date 07/16/96 — Batch 0717960002

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
8270B	PHENOL	S06013	*Below MDL*	390	ug/Kg	1.0	108-95-2	GH	07/22/96
8270B	BIS(2-CHLOROETHYL) ETHER	S06013	*Below MDL*	390	ug/Kg	1.0	111-44-4	GH	07/22/96
8270B	2-CHLOROPHENOL	S06013	*Below MDL*	390	ug/Kg	1.0	95-57-8	GH	07/22/96
8270B	1,3-DICHLOROBENZENE	S06013	*Below MDL*	390	ug/Kg	1.0	541-73-1	GH	07/22/96
8270B	1,4-DICHLOROBENZENE	S06013	*Below MDL*	390	ug/Kg	1.0	106-46-7	GH	07/22/96
8270B	1,2-DICHLOROBENZENE	S06013	*Below MDL*	390	ug/Kg	1.0	95-50-1	GH	07/22/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	S06013	*Below MDL*	390	ug/Kg	1.0	108-60-1	GH	07/22/96
8270B	2-METHYLPHENOL	S06013	*Below MDL*	390	ug/Kg	1.0	95-48-7	GH	07/22/96
8270B	4-METHYLPHENOL	S06013	*Below MDL*	390	ug/Kg	1.0	106-44-5	GH	07/22/96
8270B	N-NITROSODI-N-PROPYLAMINE	S06013	*Below MDL*	390	ug/Kg	1.0	621-64-7	GH	07/22/96
8270B	HEXACHLOROETHANE	S06013	*Below MDL*	390	ug/Kg	1.0	67-72-1	GH	07/22/96
8270B	NITROBENZENE	S06013	*Below MDL*	390	ug/Kg	1.0	98-95-3	GH	07/22/96
8270B	ISOPHORONE	S06013	*Below MDL*	390	ug/Kg	1.0	78-59-1	GH	07/22/96
8270B	2-NITROPHENOL	S06013	*Below MDL*	779	ug/Kg	1.0	88-75-5	GH	07/22/96
8270B	2,4-DIMETHYLPHENOL	S06013	*Below MDL*	390	ug/Kg	1.0	105-67-9	GH	07/22/96
8270B	BIS(2-CHLOROETHOXY)METHANE	S06013	*Below MDL*	390	ug/Kg	1.0	111-91-1	GH	07/22/96
8270B	2,4-DICHLOROPHENOL	S06013	*Below MDL*	390	ug/Kg	1.0	120-83-2	GH	07/22/96
8270B	1,2,4-TRICHLOROBENZENE	S06013	*Below MDL*	390	ug/Kg	1.0	120-82-1	GH	07/22/96
8270B	NAPHTHALENE	S06013	*Below MDL*	390	ug/Kg	1.0	91-20-3	GH	07/22/96
8270B	4-CHLOROANILINE	S06013	*Below MDL*	390	ug/Kg	1.0	106-47-8	GH	07/22/96
8270B	HEXACHLOROBUTADIENE	S06013	*Below MDL*	390	ug/Kg	1.0	87-68-3	GH	07/22/96
8270B	4-CHLORO-3-METHYLPHENOL	S06013	*Below MDL*	779	ug/Kg	1.0	59-50-7	GH	07/22/96
8270B	2-METHYLNAPHTHALENE	S06013	*Below MDL*	390	ug/Kg	1.0	91-57-6	GH	07/22/96
8270B	HEXACHLOROCYCLOPENTADIENE	S06013	*Below MDL*	390	ug/Kg	1.0	77-47-4	GH	07/22/96
8270B	2,4,6-TRICHLOROPHENOL	S06013	*Below MDL*	390	ug/Kg	1.0	88-06-2	GH	07/22/96
8270B	2,4,5-TRICHLOROPHENOL	S06013	*Below MDL*	390	ug/Kg	1.0	95-95-4	GH	07/22/96
8270B	2-CHLORONAPHTHALENE	S06013	*Below MDL*	390	ug/Kg	1.0	91-58-7	GH	07/22/96
8270B	2-NITROANILINE	S06013	*Below MDL*	390	ug/Kg	1.0	88-74-4	GH	07/22/96
8270B	DIMETHYL PHTHALATE	S06013	*Below MDL*	390	ug/Kg	1.0	131-11-3	GH	07/22/96
8270B	ACENAPHTHYLENE	S06013	*Below MDL*	390	ug/Kg	1.0	208-96-8	GH	07/22/96
8270B	2,6-DINITROTOLUENE	S06013	*Below MDL*	390	ug/Kg	1.0	606-20-2	GH	07/22/96
8270B	3-NITROANILINE	S06013	*Below MDL*	390	ug/Kg	1.0	99-09-2	GH	07/22/96
8270B	ACENAPHTHENE	S06013	*Below MDL*	390	ug/Kg	1.0	83-32-9	GH	07/22/96
8270B	2,4-DINITROPHENOL	S06013	*Below MDL*	1948	ug/Kg	1.0	51-28-5	GH	07/22/96
8270B	4-NITROPHENOL	S06013	*Below MDL*	1948	ug/Kg	1.0	100-02-7	GH	07/22/96
8270B	DIBENZOFURAN	S06013	*Below MDL*	390	ug/Kg	1.0	132-64-9	GH	07/22/96
8270B	2,4-DINITROTOLUENE	S06013	*Below MDL*	390	ug/Kg	1.0	121-14-2	GH	07/22/96
8270B	DIETHYL PHTHALATE	S06013	*Below MDL*	390	ug/Kg	1.0	84-66-2	GH	07/22/96
8270B	4-CHLOROPHENYL PHENYL ETHER	S06013	*Below MDL*	390	ug/Kg	1.0	7005-72-3	GH	07/22/96
8270B	FLUORENE	S06013	*Below MDL*	390	ug/Kg	1.0	86-73-7	GH	07/22/96
8270B	4-NITROANILINE	S06013	*Below MDL*	390	ug/Kg	1.0	100-01-6	GH	07/22/96
8270B	2-METHYL-4,6-DINITROPHENOL	S06013	*Below MDL*	1948	ug/Kg	1.0	534-52-1	GH	07/22/96
8270B	N-NITROSODIPHENYLAMINE	S06013	*Below MDL*	390	ug/Kg	1.0	86-30-6	GH	07/22/96
8270B	4-BROMOPHENYL PHENYL ETHER	S06013	*Below MDL*	390	ug/Kg	1.0	101-55-3	GH	07/22/96

Lab Sample ID	AB35670	**Client Site #**	29453
Project #	3996	**Client Sample #**	#22 T- 1-S3
Project Name	FT. STEWART		
Sampling Date/Time	07/01/96 17:50		

CAS	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
SEMI (GC/MS) SOIL					**Prep Date** 07/16/96		**Batch** 0717960002		
8270B	HEXACHLOROBENZENE	$06013	*Below MDL*	390	ug/Kg	1.0	118-74-1	GH	07/22/96
8270B	PENTACHLOROPHENOL	$06013	*Below MDL*	1948	ug/Kg	1.0	87-86-5	GH	07/22/96
8270B	PHENANTHRENE	$06013	*Below MDL*	390	ug/Kg	1.0	85-01-8	GH	07/22/96
8270B	ANTHRACENE	$06013	*Below MDL*	390	ug/Kg	1.0	120-12-7	GH	07/22/96
8270B	DI-N-BUTYL PHTHALATE	$06013	*Below MDL*	390	ug/Kg	1.0	84-74-2	GH	07/22/96
8270B	FLUORANTHENE	$06013	*Below MDL*	390	ug/Kg	1.0	206-44-0	GH	07/22/96
8270B	PYRENE	$06013	*Below MDL*	390	ug/Kg	1.0	129-00-0	GH	07/22/96
8270B	BUTYL BENZYL PHTHALATE	$06013	*Below MDL*	390	ug/Kg	1.0	85-68-7	GH	07/22/96
8270B	3,3'-DICHLOROBENZIDINE	$06013	*Below MDL*	779	ug/Kg	1.0	91-94-1	GH	07/22/96
8270B	BENZO(A)ANTHRACENE	$06013	*Below MDL*	390	ug/Kg	1.0	56-55-3	GH	07/22/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	$06013	*Below MDL*	390	ug/Kg	1.0	117-81-7	GH	07/22/96
8270B	CHRYSENE	$06013	*Below MDL*	390	ug/Kg	1.0	218-01-9	GH	07/22/96
8270B	DI-N-OCTYL PHTHALATE	$06013	*Below MDL*	390	ug/Kg	1.0	117-84-0	GH	07/22/96
8270B	BENZO(B)FLUORANTHENE	$06013	*Below MDL*	390	ug/Kg	1.0	205-99-2	GH	07/22/96
8270B	BENZO(K)FLUORANTHENE	$06013	*Below MDL*	390	ug/Kg	1.0	207-08-9	GH	07/22/96
8270B	BENZO(A)PYRENE	$06013	*Below MDL*	390	ug/Kg	1.0	50-32-8	GH	07/22/96
8270B	INDENO(1,2,3-CD)PYRENE	$06013	*Below MDL*	390	ug/Kg	1.0	193-39-5	GH	07/22/96
8270B	DIBENZO(A,H)ANTHRACENE	$06013	*Below MDL*	390	ug/Kg	1.0	53-70-3	GH	07/22/96
8270B	BENZO(G,H,I)PERYLENE	$06013	*Below MDL*	390	ug/Kg	1.0	191-24-2	GH	07/22/96
8270B	2-FLUOROPHENOL (SURR)	$06013	*42*	%	REC	1.0	367-12-4	GH	07/22/96
8270B	PHENOL-D5 (SURR)	$06013	*51*	%	REC	1.0	13127-88-3	GH	07/22/96
8270B	NITROBENZENE-D5 (SURR)	$06013	*45*	%	REC	1.0	4165-60-0	GH	07/22/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*63*	%	REC	1.0	321-60-8	GH	07/22/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*71*	%	REC	1.0	118-79-6	GH	07/22/96
8270B	TERPHENYL-D14 (SURR)	$06013	*71*	%	REC	1.0	1718-51-0	GH	07/22/96
8270B	CARBAZOLE	$06013	*Below MDL*	390	ug/Kg	1.0	86-74-8	GH	07/22/96
BTEX (GC) SOIL					**Prep Date** 07/15/96		**Batch** 071596BS		
8020A	BENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	71-43-2	DTA	07/16/96
8020A	TOLUENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-88-3	DTA	07/16/96
8020A	ETHYLBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	100-41-4	DTA	07/16/96
8020A	XYLENES (TOTAL)	$08006	*Below MDL*	1.2	ug/Kg	1.0	1330-20-7	DTA	07/16/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*50*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*71*	%	REC	1.0	460-00-4	DTA	07/16/96
8020A	CHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	108-90-7	DTA	07/16/96
8020A	1,2-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	95-50-1	DTA	07/16/96
8020A	1,3-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	541-73-1	DTA	07/16/96
8020A	1,4-DICHLOROBENZENE	$08006	*Below MDL*	1.2	ug/Kg	1.0	106-46-7	DTA	07/16/96
8020A	TERT-METHYLBUTYL ETHER	$08006	*Below MDL*	1.2	ug/Kg	1.0	1634-04-4	DTA	07/16/96
					Prep Date 07/17/96		**Batch** 071796B		
9071A	TRPH 9071A SOIL	08041	*Below MDL*	12	mg/Kg	1.0		ML	07/17/96
					Prep Date 07/12/96		**Batch** 071296		
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	*84.7*	0.1	%	1.0		MN	07/12/96

Lab Sample ID AB35673 **Client Site #** 29456
Project # 3996 **Client Sample #** #24 T- 1-S3
Project Name FT. STEWART
Sampling Date/Time 07/02/96 08:40

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
Sample Comment	Results are reported on a dry weight basis.								
BTEX (GC) SOIL						**Prep Date** 07/16/96		**Batch** 071696BS	
8020A	ETHYLBENZENE	S08006	*Below MDL*	1.2	ug/Kg	1.0	100-41-4	DTA	07/16/96
8020A	XYLENES (TOTAL)	S08006	*Below MDL*	1.2	ug/Kg	1.0	1330-20-7	DTA	07/16/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08006	*76*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08006	*71*	%	REC	1.0	460-00-4	DTA	07/16/96
8020A	CHLOROBENZENE	S08006	*Below MDL*	1.2	ug/Kg	1.0	108-90-7	DTA	07/16/96
8020A	1,2-DICHLOROBENZENE	S08006	*Below MDL*	1.2	ug/Kg	1.0	95-50-1	DTA	07/16/96
8020A	1,3-DICHLOROBENZENE	S08006	*Below MDL*	1.2	ug/Kg	1.0	541-73-1	DTA	07/16/96
8020A	1,4-DICHLOROBENZENE	S08006	*Below MDL*	1.2	ug/Kg	1.0	106-46-7	DTA	07/16/96
8020A	TERT-METHYLBUTYL ETHER	S08006	*Below MDL*	1.2	ug/Kg	1.0	1634-04-4	DTA	07/16/96
						Prep Date 07/17/96		**Batch** 071796B	
9071A	TRPH 9071A SOIL	08041	*Below MDL*	12	mg/Kg	1.0		ML	07/17/96
						Prep Date 07/12/96		**Batch** 071296	
160.3	% TOTAL SOLIDS SOIL (N/C)	09099	*83.3*	0.1	%	1.0		MN	07/12/96

Lab Sample ID AB35674 **Client Site #** 29457
Project # 3996 **Client Sample #** TRIP BLANK
Project Name FT. STEWART
Sampling Date/Time 07/02/96 :

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER						**Prep Date** 07/16/96		**Batch** 071696BW	
8020A	BENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	71-43-2	DTA	07/17/96
8020A	TOLUENE	S08106	*Below MDL*	1.0	ug/L	1.0	108-88-8	DTA	07/17/96
8020A	ETHYLBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	100-41-4	DTA	07/17/96
8020A	XYLENES (TOTAL)	S08106	*Below MDL*	1.0	ug/L	1.0	1330-20-7	DTA	07/17/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08106	*92*	%	REC	1.0	98-08-8	DTA	07/17/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08106	*94*	%	REC	1.0	460-00-4	DTA	07/17/96
8020A	CHLOROBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	108-90-7	DTA	07/17/96
8020A	1,2-DICHLOROBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	95-50-1	DTA	07/17/96
8020A	1,3-DICHLOROBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	541-73-1	DTA	07/17/96
8020A	1,4-DICHLOROBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	106-46-7	DTA	07/17/96
8020A	TERT-METHYLBUTYL ETHER	S08106	*Below MDL*	1.0	ug/L	1.0	1634-04-4	DTA	07/17/96

Lab Sample ID AB35675 **Client Site #**

Project # 3996 **Client Sample #** METHOD BLANK SOIL

Project Name FT. STEWART

Sampling Date/Time / / :

OD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 07/16/96			Batch 0717960002		
8270B	PHENOL	S06013	Below MDL	330	ug/Kg	1.0	108-95-2	GH	07/18/96
8270B	BIS(2-CHLOROETHYL) ETHER	S06013	Below MDL	330	ug/Kg	1.0	111-44-4	GH	07/18/96
8270B	2-CHLOROPHENOL	S06013	Below MDL	330	ug/Kg	1.0	95-57-8	GH	07/18/96
8270B	1,3-DICHLOROBENZENE	S06013	Below MDL	330	ug/Kg	1.0	541-73-1	GH	07/18/96
8270B	1,4-DICHLOROBENZENE	S06013	Below MDL	330	ug/Kg	1.0	106-46-7	GH	07/18/96
8270B	1,2-DICHLOROBENZENE	S06013	Below MDL	330	ug/Kg	1.0	95-50-1	GH	07/18/96
8270B	BIS(2-CHLOROISOPROPYL) ETHER	S06013	Below MDL	330	ug/Kg	1.0	108-60-1	GH	07/18/96
8270B	2-METHYLPHENOL	S06013	Below MDL	330	ug/Kg	1.0	95-48-7	GH	07/18/96
8270B	4-METHYLPHENOL	S06013	Below MDL	330	ug/Kg	1.0	106-44-5	GH	07/18/96
8270B	N-NITROSODI-N-PROPYLAMINE	S06013	Below MDL	330	ug/Kg	1.0	621-64-7	GH	07/18/96
8270B	HEXACHLOROETHANE	S06013	Below MDL	330	ug/Kg	1.0	67-72-1	GH	07/18/96
8270B	NITROBENZENE	S06013	Below MDL	330	ug/Kg	1.0	98-95-3	GH	07/18/96
8270B	ISOPHORONE	S06013	Below MDL	330	ug/Kg	1.0	78-59-1	GH	07/18/96
8270B	2-NITROPHENOL	S06013	Below MDL	660	ug/Kg	1.0	88-75-5	GH	07/18/96
8270B	2,4-DIMETHYLPHENOL	S06013	Below MDL	330	ug/Kg	1.0	105-67-9	GH	07/18/96
8270B	BIS(2-CHLOROETHOXY)METHANE	S06013	Below MDL	330	ug/Kg	1.0	111-91-1	GH	07/18/96
8270B	2,4-DICHLOROPHENOL	S06013	Below MDL	330	ug/Kg	1.0	120-83-2	GH	07/18/96
8270B	1,2,4-TRICHLOROBENZENE	S06013	Below MDL	330	ug/Kg	1.0	120-82-1	GH	07/18/96
8270B	NAPHTHALENE	S06013	Below MDL	330	ug/Kg	1.0	91-20-3	GH	07/18/96
[illegible]	4-CHLOROANILINE	S06013	Below MDL	330	ug/Kg	1.0	106-47-8	GH	07/18/96
[illegible]	HEXACHLOROBUTADIENE	S06013	Below MDL	330	ug/Kg	1.0	87-68-3	GH	07/18/96
8270B	4-CHLORO-3-METHYLPHENOL	S06013	Below MDL	660	ug/Kg	1.0	59-50-7	GH	07/18/96
8270B	2-METHYLNAPHTHALENE	S06013	Below MDL	330	ug/Kg	1.0	91-57-6	GH	07/18/96
8270B	HEXACHLOROCYCLOPENTADIENE	S06013	Below MDL	330	ug/Kg	1.0	77-47-4	GH	07/18/96
8270B	2,4,6-TRICHLOROPHENOL	S06013	Below MDL	330	ug/Kg	1.0	88-06-2	GH	07/18/96
8270B	2,4,5-TRICHLOROPHENOL	S06013	Below MDL	330	ug/Kg	1.0	95-95-4	GH	07/18/96
8270B	2-CHLORONAPHTHALENE	S06013	Below MDL	330	ug/Kg	1.0	91-58-7	GH	07/18/96
8270B	2-NITROANILINE	S06013	Below MDL	330	ug/Kg	1.0	88-74-4	GH	07/18/96
8270B	DIMETHYL PHTHALATE	S06013	Below MDL	330	ug/Kg	1.0	131-11-3	GH	07/18/96
8270B	ACENAPHTHYLENE	S06013	Below MDL	330	ug/Kg	1.0	208-96-8	GH	07/18/96
8270B	2,6-DINITROTOLUENE	S06013	Below MDL	330	ug/Kg	1.0	606-20-2	GH	07/18/96
8270B	3-NITROANILINE	S06013	Below MDL	330	ug/Kg	1.0	99-09-2	GH	07/18/96
8270B	ACENAPHTHENE	S06013	Below MDL	330	ug/Kg	1.0	83-32-9	GH	07/18/96
8270B	2,4-DINITROPHENOL	S06013	Below MDL	1650	ug/Kg	1.0	51-28-5	GH	07/18/96
8270B	4-NITROPHENOL	S06013	Below MDL	1650	ug/Kg	1.0	100-02-7	GH	07/18/96
8270B	DIBENZOFURAN	S06013	Below MDL	330	ug/Kg	1.0	132-64-9	GH	07/18/96
8270B	2,4-DINITROTOLUENE	S06013	Below MDL	330	ug/Kg	1.0	121-14-2	GH	07/18/96
8270B	DIETHYL PHTHALATE	S06013	Below MDL	330	ug/Kg	1.0	84-66-2	GH	07/18/96
8270B	4-CHLOROPHENYL PHENYL ETHER	S06013	Below MDL	330	ug/Kg	1.0	7005-72-3	GH	07/18/96
8270B	FLUORENE	S06013	Below MDL	330	ug/Kg	1.0	86-73-7	GH	07/18/96
8270B	4-NITROANILINE	S06013	Below MDL	330	ug/Kg	1.0	100-01-6	GH	07/18/96
8270B	2-METHYL-4,6-DINITROPHENOL	S06013	Below MDL	1650	ug/Kg	1.0	534-52-1	GH	07/18/96
[illegible]	N-NITROSODIPHENYLAMINE	S06013	Below MDL	330	ug/Kg	1.0	86-30-6	GH	07/18/96
[illegible]	4-BROMOPHENYL PHENYL ETHER	S06013	Below MDL	330	ug/Kg	1.0	101-55-3	GH	07/18/96
8270B	HEXACHLOROBENZENE	S06013	Below MDL	330	ug/Kg	1.0	118-74-1	GH	07/18/96

Lab Sample ID AB35675 **Client Site #**

Project # 3996 **Client Sample #** METHOD BLANK SOIL

Project Name FT. STEWART

Sampling Date/Time / / :

OD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 07/16/96			Batch 0717960002		
8270B	PENTACHLOROPHENOL	$06013	*Below MDL*	1650	ug/Kg	1.0	87-86-5	GH	07/18/96
8270B	PHENANTHRENE	$06013	*Below MDL*	330	ug/Kg	1.0	85-01-8	GH	07/18/96
8270B	ANTHRACENE	$06013	*Below MDL*	330	ug/Kg	1.0	120-12-7	GH	07/18/96
8270B	DI-N-BUTYL PHTHALATE	$06013	*Below MDL*	330	ug/Kg	1.0	84-74-2	GH	07/18/96
8270B	FLUORANTHENE	$06013	*Below MDL*	330	ug/Kg	1.0	206-44-0	GH	07/18/96
8270B	PYRENE	$06013	*Below MDL*	330	ug/Kg	1.0	129-00-0	GH	07/18/96
8270B	BUTYL BENZYL PHTHALATE	$06013	*Below MDL*	330	ug/Kg	1.0	85-68-7	GH	07/18/96
8270B	3,3'-DICHLOROBENZIDINE	$06013	*Below MDL*	660	ug/Kg	1.0	91-94-1	GH	07/18/96
8270B	BENZO(A)ANTHRACENE	$06013	*Below MDL*	330	ug/Kg	1.0	56-55-3	GH	07/18/96
8270B	BIS(2-ETHYLHEXYL) PHTHALATE	$06013	*Below MDL*	330	ug/Kg	1.0	117-81-7	GH	07/18/96
8270B	CHRYSENE	$06013	*Below MDL*	330	ug/Kg	1.0	218-01-9	GH	07/18/96
8270B	DI-N-OCTYL PHTHALATE	$06013	*Below MDL*	330	ug/Kg	1.0	117-84-0	GH	07/18/96
8270B	BENZO(B)FLUORANTHENE	$06013	*Below MDL*	330	ug/Kg	1.0	205-99-2	GH	07/18/96
8270B	BENZO(K)FLUORANTHENE	$06013	*Below MDL*	330	ug/Kg	1.0	207-08-9	GH	07/18/96
8270B	BENZO(A)PYRENE	$06013	*Below MDL*	330	ug/Kg	1.0	50-32-8	GH	07/18/96
8270B	INDENO(1,2,3-CD)PYRENE	$06013	*Below MDL*	330	ug/Kg	1.0	193-39-5	GH	07/18/96
8270B	DIBENZO(A,H)ANTHRACENE	$06013	*Below MDL*	330	ug/Kg	1.0	53-70-3	GH	07/18/96
8270B	BENZO(G,H,I)PERYLENE	$06013	*Below MDL*	330	ug/Kg	1.0	191-24-2	GH	07/18/96
8270B	2-FLUOROPHENOL (SURR)	$06013	*72*	%	REC	1.0	367-12-4	GH	07/18/96
8270B	PHENOL-D5 (SURR)	$06013	*82*	%	REC	1.0	13127-88-3	GH	07/18/96
8270B	NITROBENZENE-D5 (SURR)	$06013	*72*	%	REC	1.0	4165-60-0	GH	07/18/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	*83*	%	REC	1.0	321-60-8	GH	07/18/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	*75*	%	REC	1.0	118-79-6	GH	07/18/96
8270B	TERPHENYL-D14 (SURR)	$06013	*97*	%	REC	1.0	1718-51-0	GH	07/18/96
8270B	CARBAZOLE	$06013	*Below MDL*	330	ug/Kg	1.0	86-74-8	GH	07/18/96
BTEX (GC) SOIL				Prep Date 07/15/96			Batch 071596BS		
8020A	BENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	71-43-2	DTA	07/16/96
8020A	TOLUENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	108-88-3	DTA	07/16/96
8020A	ETHYLBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	100-41-4	DTA	07/16/96
8020A	XYLENES (TOTAL)	$08006	*Below MDL*	1.0	ug/Kg	1.0	1330-20-7	DTA	07/16/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*101*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*102*	%	REC	1.0	460-00-4	DTA	07/16/96
8020A	CHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	108-90-7	DTA	07/16/96
8020A	1,2-DICHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	95-50-1	DTA	07/16/96
8020A	1,3-DICHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	541-73-1	DTA	07/16/96
8020A	1,4-DICHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	106-46-7	DTA	07/16/96
8020A	TERT-METHYLBUTYL ETHER	$08006	*Below MDL*	1.0	ug/Kg	1.0	1634-04-4	DTA	07/16/96
TPH DRO (FID) SOIL				Prep Date 07/17/96			Batch 0718960002		
8015A	DIESEL RANGE ORGANICS (DRO)	$08009	*Below MDL*	10.0	mg/Kg	1.0		DTA	07/24/96
8015A	O-TERPHENYL (SURR)	$08009	*97*	%	REC	1.0		DTA	07/24/96
				Prep Date 07/17/96			Batch 071796B		
9	TRPH 9071A SOIL	08041	*Below MDL*	10.0	mg/Kg	1.0		ML	07/17/96

Lab Sample ID AB35676 **Client Site #**
Project # 3996 **Client Sample #** METHOD BLANK WATER
Project Name FT. STEWART
Sampling Date/Time / / :

OD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/16/96			Batch 071696BW		
8020A	BENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	71-43-2	DTA	07/16/96
8020A	TOLUENE	S08106	*Below MDL*	1.0	ug/L	1.0	108-88-8	DTA	07/16/96
8020A	ETHYLBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	100-41-4	DTA	07/16/96
8020A	XYLENES (TOTAL)	S08106	*Below MDL*	1.0	ug/L	1.0	1330-20-7	DTA	07/16/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08106	*91*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08106	*93*	%	REC	1.0	460-00-4	DTA	07/16/96
8020A	CHLOROBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	108-90-7	DTA	07/16/96
8020A	1,2-DICHLOROBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	95-50-1	DTA	07/16/96
8020A	1,3-DICHLOROBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	541-73-1	DTA	07/16/96
8020A	1,4-DICHLOROBENZENE	S08106	*Below MDL*	1.0	ug/L	1.0	106-46-7	DTA	07/16/96
8020A	TERT-METHYLBUTYL ETHER	S08106	*Below MDL*	1.0	ug/L	1.0	1634-04-4	DTA	07/16/96

Lab Sample ID AB35951 **Client Site #**
Project # 3996 **Client Sample #** MS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 07/16/96			Batch 0717960002		
8270B	2-FLUOROPHENOL (SURR)	S06013	*60*	%	REC	1.0	367-12-4	MA	07/18/96
8270B	PHENOL-D5 (SURR)	S06013	*69*	%	REC	1.0	13127-88-3	MA	07/18/96
8270B	NITROBENZENE-D5 (SURR)	S06013	*61*	%	REC	1.0	4165-60-0	MA	07/18/96
8270B	2-FLUOROBIPHENYL (SURR)	S06013	*71*	%	REC	1.0	321-60-8	MA	07/18/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	S06013	*73*	%	REC	1.0	118-79-6	MA	07/18/96
8270B	TERPHENYL-D14 (SURR)	S06013	*80*	%	REC	1.0	1718-51-0	MA	07/18/96

Lab Sample ID AB35952 **Client Site #**
Project # 3996 **Client Sample #** MSD
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 07/16/96			Batch 0717960002		
8270B	2-FLUOROPHENOL (SURR)	S06013	*60*	%	REC	1.0	367-12-4	MA	07/18/96
8270B	PHENOL-D5 (SURR)	S06013	*67*	%	REC	1.0	13127-88-3	MA	07/18/96
8270B	NITROBENZENE-D5 (SURR)	S06013	*58*	%	REC	1.0	4165-60-0	MA	07/18/96
8270B	2-FLUOROBIPHENYL (SURR)	S06013	*68*	%	REC	1.0	321-60-8	MA	07/18/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	S06013	*74*	%	REC	1.0	118-79-6	MA	07/18/96
8270B	TERPHENYL-D14 (SURR)	S06013	*77*	%	REC	1.0	1718-51-0	MA	07/18/96

Lab Sample ID AB35953 Client Site #
Project # 3996 Client Sample # LCS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
SEMI (GC/MS) SOIL				Prep Date 07/16/96			Batch 0717960002		
8270B	2-FLUOROPHENOL (SURR)	$06013	77		% REC	1.0	367-12-4	MA	07/19/96
8270B	PHENOL-D5 (SURR)	$06013	83		% REC	1.0	13127-88-3	MA	07/19/96
8270B	NITROBENZENE-D5 (SURR)	$06013	71		% REC	1.0	4165-60-0	MA	07/19/96
8270B	2-FLUOROBIPHENYL (SURR)	$06013	85		% REC	1.0	321-60-8	MA	07/19/96
8270B	2,4,6-TRIBROMOPHENOL (SURR)	$06013	87		% REC	1.0	118-79-6	MA	07/19/96
8270B	TERPHENYL-D14 (SURR)	$06013	90		% REC	1.0	1718-51-0	MA	07/19/96

Lab Sample ID AB36036 Client Site #
Project # 3996 Client Sample # MS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
TPH DRO (FID) SOIL				Prep Date 07/17/96			Batch 0718960002		
8015A	O-TERPHENYL (SURR)	$08009	68		% REC	1.0		DTA	07/25/96

Lab Sample ID AB36037 Client Site #
Project # 3996 Client Sample # MSD
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
TPH DRO (FID) SOIL				Prep Date 07/17/96			Batch 0718960002		
8015A	O-TERPHENYL (SURR)	$08009	61		% REC	1.0		DTA	07/25/96

Lab Sample ID AB36038 Client Site #
Project # 3996 Client Sample # LCS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
TPH DRO (FID) SOIL				Prep Date 07/17/96			Batch 0718960002		
8015A	O-TERPHENYL (SURR)	$08009	100		% REC	1.0		DTA	07/24/96

Lab Sample ID AB36146 **Client Site #**
Project # 3996 **Client Sample #** LCS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/15/96			Batch 071596BS		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*96*		% REC	1.0	98-08-8	DTA	07/15/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*101*		% REC	1.0	460-00-4	DTA	07/15/96

Lab Sample ID AB36147 **Client Site #**
Project # 3996 **Client Sample #** MS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/15/96			Batch 071596BS		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*81*		% REC	1.0	98-08-8	DTA	07/15/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*68*		% REC	1.0	460-00-4	DTA	07/15/96

Lab Sample ID AB36148 **Client Site #**
Project # 3996 **Client Sample #** MSD
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/15/96			Batch 071596BS		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*88*		% REC	1.0	98-08-8	DTA	07/15/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*57*		% REC	1.0	460-00-4	DTA	07/15/96

Lab Sample ID AB36149 **Client Site #**
Project # 3996 **Client Sample #** METHOD BLANK SOIL
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/16/96			Batch 071696BS		
8020A	BENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	71-43-2	DTA	07/16/96
8020A	TOLUENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	108-88-3	DTA	07/16/96
8020A	ETHYLBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	100-41-4	DTA	07/16/96
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	$08006	*95*		% REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	$08006	*100*		% REC	1.0	460-00-4	DTA	07/16/96
8020A	XYLENES (TOTAL)	$08006	*Below MDL*	1.0	ug/Kg	1.0	1330-20-7	DTA	07/16/96
8020A	1,2-DICHLOROBENZENE	$08006	*Below MDL*	1.0	ug/Kg	1.0	95-50-1	DTA	07/16/96

Lab Sample ID AB36149 **Client Site #**
Project # 3996 **Client Sample #** METHOD BLANK SOIL
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/16/96			Batch 071696BS		
8020A	1,3-DICHLOROBENZENE	S08006	*Below MDL*	1.0	ug/Kg	1.0	541-73-1	DTA	07/16/96
8020A	1,4-DICHLOROBENZENE	S08006	*Below MDL*	1.0	ug/Kg	1.0	106-46-7	DTA	07/16/96
8020A	TERT-METHYLBUTYL ETHER	S08006	*Below MDL*	1.0	ug/Kg	1.0	1634-04-4	DTA	07/16/96

Lab Sample ID AB36150 **Client Site #**
Project # 3996 **Client Sample #** LCS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/16/96			Batch 071696BS		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08006	*93*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08006	*100*	%	REC	1.0	460-00-4	DTA	07/16/96

Lab Sample ID AB36151 **Client Site #**
Project # 3996 **Client Sample #** MS
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) SOIL				Prep Date 07/16/96			Batch 071696BS		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08006	*85*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08006	*86*	%	REC	1.0	460-00-4	DTA	07/16/96

Lab Sample ID AB36152 **Client Site #**
Project # 3996 **Client Sample #** MSD
Project Name FT. STEWART
Sampling Date/Time / /

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/16/96			Batch 071696BS		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08106	*74*	%	REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08106	*76*	%	REC	1.0	460-00-4	DTA	07/16/96

Lab Sample ID AB36153
Project # 3996
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # LCS

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/16/96			Batch 071696BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08106	*93*		% REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08106	*96*		% REC	1.0	460-00-4	DTA	07/16/96

Lab Sample ID AB36154
Project # 3996
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MS

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/16/96			Batch 071696BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08106	*93*		% REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08106	*96*		% REC	1.0	460-00-4	DTA	07/16/96

Lab Sample ID AB36155
Project # 3996
Project Name FT. STEWART
Sampling Date/Time / /

Client Site #
Client Sample # MSD

METHOD	ANALYTE	TEST CODE	RESULT	MDL	UNITS	Dilution Factor	CAS #	ANALYST	DATE OF ANALYSIS
BTEX (GC) WATER				Prep Date 07/16/96			Batch 071696BW		
8020A	A,A,A-TRIFLUOROTOLUENE (SURR)	S08106	*109*		% REC	1.0	98-08-8	DTA	07/16/96
8020A	4-BROMOFLUOROBENZENE (SURR)	S08106	*110*		% REC	1.0	460-00-4	DTA	07/16/96

Certifying Scientist

U.S. Army Corps of Engineers Work Order # ______ Job # 3996 **Chain of Custody Record** (ER 1110-1-263)

TAT Regular

Proj. No.	Project Name: Ft. Stewart
Sampler: (Signature)	

Date	Time	Pres.	Grab	Comp	Site Code/Sample Number	Number of Containers	M8020	M8270	M8015 DRO	Dic./Cl. 9073 ext.				Remarks: SAD NO. LABID
7/01/96	1406				#118 T-1-S1	3	✓	✓	✓					29450 AB35667 Dic
	1730				#22 T-1-S1	3	✓	✓		✓				29451 AB35668
	1740				#22 T-1-S2	3	✓	✓		✓				29452 AB35669
7/1/96	1750				#22 T-1-S3	3	✓	✓		✓				29453 AB35670
7/3/96	0820				#24 T-1-S1	3	✓	✓		✓				29454 AB35671
	0830				#24 T-1-S2	3	✓	✓		✓				29455 AB35672
	0840				#24 T-1-S3	3	✓	✓		✓				29456 AB35673 Dic
7/3/96	—				Trip Blank	2	✓							29457 AB35674 Water
					method Blank soil	X	X	X	X	X				AB35675
					method Blank water		X							AB35676

Due 7/17

Sampler Relinquished by:	Date/Time	Received by: (Sig.)	Date/Time	Hazards Associated with Samples
Relinquished by: (Sig.) [signature]	Date/Time 7/9/96	Received by: (Sig.) [signature]	Date/Time 7/10/96 10:31	
Relinquished by: (Sig)	Date/Time	Received for Laboratory by: (Sig.)	Date/Time	Remarks at time of receipt: 107899 Rec 4°C
Custody Seal No.		Lab case No.:		

ENG Form 5021-R, Oct 90

Location Infoline # 4 Ledger # 107899

Proponent: CEMP

021

Ecosys, Inc.

INITIAL CALIBRATION DATA

tart Cal Date : 28-MAY-93 15:51
nd Cal Date : 18-JUL-1996 14:45
uant Method : ISTD
al Curve Type : Averaged
arget Version : Target 2.20
ntegrator : HP RTE
ethod file : /chem/msd_2.i/2-071896.b/MA-BNA.m
al Date : 12-Aug-1996 09:36 target

alibration File Names:
evel 2: /chem/msd_2.i/2-071896.b/bna0301003.d
evel 3: /chem/msd_2.i/2-071896.b/bna0401004.d
evel 4: /chem/msd_2.i/2-071896.b/bna0501005.d
evel 5: /chem/msd_2.i/2-071896.b/bna0101001.d
evel 6: /chem/msd_2.i/2-071896.b/bna0201002.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	%RSD/R^2
2 niline	1.34330	1.41379	1.36821	1.38701	1.23786	1.35003	5.023
4 Phenol **	1.45358	1.11980	0.97185	0.74763	0.84699	1.02797	26.821
5 Bis(2-chloroethyl) ether	1.49140	1.08809	0.96576	0.81451	0.74865	1.02168	28.772
6 2-Chlorophenol	1.37376	1.18180	1.07181	0.97603	0.86516	1.09371	17.867
7 1,3-Dichlorobenzene	1.66305	1.39387	1.31256	1.14188	1.04743	1.31176	18.236
9 1,4-Dichlorobenzene **	1.61058	1.34844	1.25706	1.05684	1.00324	1.25523	19.425
10 1,2-Dichlorobenzene	1.55117	1.37012	1.25058	1.09207	0.98779	1.25035	17.831
11 Benzyl alcohol	0.99057	0.91755	0.91141	0.88579	0.85479	0.91202	5.527
12 2-Methylphenol	1.19824	0.92851	0.78111	0.70619	0.58927	0.84066	27.923
13 Bis(2-chloroisopropyl) ether	0.61697	0.57045	0.50095	0.46829	0.37938	0.50721	18.161
14 N-Nitrosodi-n-propylamine *	0.84725	0.75679	0.72117	0.68554	0.52372	0.70689	16.798
15 4-Methylphenol	1.04578	0.99018	0.77451	0.61645	0.56977	0.79934	26.826
16 Hexachloroethane	0.70977	0.61710	0.54614	0.48070	0.48439	0.56762	17.088
18 Nitrobenzene	0.39056	0.36900	0.34931	0.31805	0.31205	0.34780	9.583
19 Isophorone	0.80044	0.74857	0.77167	0.79344	0.61780	0.74638	10.007
20 2-Nitrophenol **	0.27700	0.28027	0.27009	0.24324	0.23841	0.26180	7.477
21 2,4-Dimethylphenol	0.41564	0.38337	0.38133	0.36729	0.37207	0.38394	4.925
22 Bis(2-chloroethoxy)methane	0.53885	0.46277	0.42328	0.40058	0.37128	0.43935	14.771
23 2,4-Dichlorophenol **	0.33925	0.35424	0.33438	0.30340	0.31585	0.32942	6.069
24 Benzoic acid	0.19848	0.26700	0.26286	0.24754	0.26100	0.24738	11.436
25 1,2,4-Trichlorobenzene	0.41740	0.39394	0.35971	0.30848	0.32990	0.36188	12.350
27 Naphthalene	1.21745	0.99662	0.88782	0.76247	0.77043	0.92696	20.349
28 4-Chloroaniline	0.28399	0.43401	0.44518	0.39640	0.38708	0.38933	16.379
29 Hexachlorobutadiene **	0.27440	0.27178	0.26720	0.23445	0.26256	0.26208	6.140
3 loro-3-methylphenol **	0.37440	0.37406	0.34997	0.32321	0.33137	0.35060	6.746
31 ethylnaphthalene	0.83771	0.71129	0.62824	0.55724	0.57797	0.66249	17.289
32 Hexachlorocyclopentadiene *	0.27169	0.41235	0.42584	0.42773	0.45809	0.39914	18.335
33 2,4,6-Trichlorophenol **	0.38520	0.39056	0.37692	0.37875	0.43696	0.39368	6.298
34 2,4,5-Trichlorophenol	0.45110	0.46051	0.45506	0.43158	0.43696	0.44704	2.746

Ecosys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-MAY-93 15:51
End Cal Date : 18-JUL-1996 14:45
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 2.20
Integrator : HP RTE
Method file : /chem/msd_2.i/2-071896.b/MA-BNA.m
Cal Date : 12-Aug-1996 09:36 target

Calibration File Names:
Level 2: /chem/msd_2.i/2-071896.b/bna0301003.d
Level 3: /chem/msd_2.i/2-071896.b/bna0401004.d
Level 4: /chem/msd_2.i/2-071896.b/bna0501005.d
Level 5: /chem/msd_2.i/2-071896.b/bna0101001.d
Level 6: /chem/msd_2.i/2-071896.b/bna0201002.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	$\overline{RRF}$	%RSD/R^2
36 2-Chloronaphthalene	1.19949	1.13442	1.03705	0.99691	1.01774	1.07712	8.016
37 2-Nitroaniline	0.31190	0.33053	0.32489	0.32410	0.33329	0.32494	2.536
38 Dimethyl phthalate	1.57431	1.53440	1.45579	1.43525	1.46192	1.49234	3.965
39 2,6-Dinitrotoluene	0.32365	0.36012	0.34484	0.32979	0.29688	0.33105	7.179
42 Acenaphthylene	1.95740	1.78053	1.67999	1.54879	1.49123	1.69159	11.029
41 3-Nitroaniline	+++++	0.21869	0.23281	0.28793	0.30479	0.26106	15.991
43 Acenaphthene **	1.22999	1.09193	1.01784	0.97934	0.99621	1.06306	9.665
44 2,4-Dinitrophenol *	+++++	0.14547	0.18043	0.17169	0.21399	0.17790	15.896
47 2,4-Dinitrotoluene	0.43476	0.45866	0.42698	0.41912	0.39631	0.42717	5.321
45 4-Nitrophenol *	0.19234	0.20017	0.19006	0.19019	0.20520	0.19559	3.466
46 Dibenzofuran	1.74282	1.54887	1.35352	1.26047	1.38000	1.45714	13.084
48 Diethyl phthalate	1.59064	1.46320	1.43881	1.32006	1.32424	1.42739	7.850
50 Fluorene	1.37905	1.22744	1.10498	1.06403	1.15100	1.18530	10.474
49 4-Chlorophenyl phenyl ether	0.71544	0.64382	0.58346	0.52699	0.54945	0.60383	12.648
52 4-Nitroaniline	0.19305	0.20922	0.17594	0.22337	0.25366	0.21105	14.071
51 4,6-Dinitro-2-methylphenol	0.10738	0.16711	0.18225	0.15137	0.16291	0.15420	18.426
53 N-Nitrosodiphenylamine **	0.47511	0.41017	0.36905	0.34393	0.28054	0.37576	19.366
54 1,2-Diphenylhydrazine	1.80328	1.34284	1.27903	1.20372	1.09695	1.34516	20.218
56 4-Bromophenyl phenyl ether	0.34900	0.31782	0.29472	0.26976	0.27528	0.30132	10.835
57 Hexachlorobenzene	0.46649	0.43046	0.41100	0.37477	0.37929	0.41240	9.206
58 Pentachlorophenol **	0.17947	0.23836	0.23085	0.22657	0.24106	0.22326	11.267
60 Phenanthrene	1.29964	1.11829	1.04429	0.97048	0.87537	1.06162	15.127
61 Anthracene	1.32251	1.11787	1.03143	0.89052	0.87537	1.04754	17.545
62 Carbazole	0.45111	0.46480	0.48874	0.58280	0.59389	0.51627	13.031
n-butyl phthalate	1.86065	1.56097	1.49092	1.30769	1.28745	1.50153	15.477
64 Fluoranthene **	1.46468	1.31411	1.24665	1.14684	1.13311	1.26108	10.778
65 Pyrene	1.52155	1.42945	1.42505	1.31346	1.30088	1.39808	6.552
67 Butyl benzyl phthalate	0.85274	0.77774	0.75236	0.69578	0.68095	0.75191	9.171
68 Di(2-ethylhexyl) adipate	0.63946	0.55803	0.50988	0.46323	0.44092	0.52230	15.217

Ecosys, Inc.

INITIAL CALIBRATION DATA

tart Cal Date : 28-MAY-93 15:51
nd Cal Date : 18-JUL-1996 14:45
uant Method : ISTD
al Curve Type : Averaged
arget Version : Target 2.20
ntegrator : HP RTE
ethod file : /chem/msd_2.i/2-071896.b/MA-BNA.m
al Date : 12-Aug-1996 09:36 target

alibration File Names:
evel 2: /chem/msd_2.i/2-071896.b/bna0301003.d
evel 3: /chem/msd_2.i/2-071896.b/bna0401004.d
evel 4: /chem/msd_2.i/2-071896.b/bna0501005.d
evel 5: /chem/msd_2.i/2-071896.b/bna0101001.d
evel 6: /chem/msd_2.i/2-071896.b/bna0201002.d

Compound	Level 2	Level 3	Level 4	Level 5	Level 6	$\overline{RRF}$	%RSD/R^2
69 3,3'-Dichlorobenzidine	0.26709	0.25575	0.26302	0.28093	0.33075	0.27951	10.761
71 Benz(a)anthracene	1.34691	1.27447	1.24169	1.17239	1.11819	1.23073	7.222
70 Bis(2-ethylhexyl) phthalate	1.14213	0.92562	0.82893	0.74757	0.93318	0.91549	16.153
73 Chrysene	1.19658	1.10004	1.05975	1.02336	1.11819	1.09958	5.955
74 Di-n-octyl phthalate **	2.24454	1.93243	1.81465	1.68624	1.57307	1.85019	13.970
75 Benzo(b)fluoranthene	1.51417	1.57613	1.57750	1.62108	1.70449	1.59867	4.400
76 Benzo(k)fluoranthene	1.59124	1.37456	1.62362	1.31779	1.05743	1.39293	16.492
77 Benzo(a)pyrene **	1.35574	1.30740	1.34730	1.33055	1.25794	1.31978	2.969
79 Indeno(1,2,3-cd)pyrene	1.33738	1.41620	1.44265	1.48834	1.40983	1.41888	3.880
80 Dibenz(a,h)anthracene	1.05635	1.13993	1.14796	1.16234	1.12015	1.12534	3.686
81 Benzo(g,h,i)perylene	1.16296	1.14344	1.16829	1.15430	1.11719	1.14924	1.761
1 2-Fluorophenol	0.95099	0.92224	0.86461	0.87652	0.76137	0.87514	8.285
3 Phenol-d5	1.42209	1.19858	1.12289	1.04293	0.85048	1.12739	18.593
17 Nitrobenzene-d5	0.44087	0.41739	0.38749	0.38114	0.37789	0.40096	6.795
35 2-Fluorobiphenyl	1.45824	1.33485	1.21010	1.16608	1.21695	1.27724	9.312
55 2,4,6-Tribromophenol	0.28095	0.28562	0.28897	0.26413	0.27077	0.27809	3.736
66 Terphenyl-d14	1.12310	1.04884	1.05765	0.98474	1.02160	1.04719	4.876

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc. Client: ACE SAD

Ledger No: 107899 DFTPP Injection Date: 7/18/96

Lab File ID: BNA0601006 DFTPP Injection Time: 15:49

Instrument ID: MSD-2 Batch Number: 0717960002

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	43.6	
68	Less than 2.0% of mass 69	0.0	
69	Mass 69 relative abundance	69.5	(1)
70	Less than 2.0% of mass 69	0.0	
127	40.0 - 60.0% of mass 198	52.4	
197	Less than 1.0% of mass 198	0.0	(1)
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.4	
275	10.0 - 30.0% of mass 198	19.4	
365	Greater than 1% of mass 198	2.3	
441	Present, but less than mass 443	71.2	
442	Greater than 40% of mass 198	68.2	
443	17.0 - 23.0% of mass 442	21.4	(2)

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	NA	BNA-80-38	BNA0701007	07/18/96	4:09 PM	
02	NA (MB)	AB35675	BNA1201012	07/18/96	9:28 PM	
03	#24 T-1-S3 (MS)	AB35951	BNA1301013	07/18/96	10:32 PM	
04	#24 T-1-S3 (MSD)	AB35952	BNA1401014	07/18/96	11:34 PM	
05	NA (LCS)	AB35953	BNA1501015	07/19/96	12:38 AM	
06	#22 T-1-S1	AB35668	BNA1601016	07/19/96	1:41 AM	
07	#24 T-1-S3	AB35673	BNA1701017	07/19/96	2:43 AM	
08						
09						
10						
11						

NA = Not Applicable

STD = Standard

MB = Method Blank; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate

MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments: _____

16 Aug 96

QA/QC OFFICER

Ecosys, Inc.

Data file : /chem/msd_2.i/2-071896.b/bna0601006.d
Lab. Id. : DFTPP02
Inj Date : 18-JUL-96 15:49 Autotune Date: 12-Jul-96 08:12:0
Operator : BINA Inst ID: msd_2.i
Smp Info : 50NG of dft-05-39
Misc Info : TUNE FOR INSTRUMENT msd2.i
Comment :
Method : /chem/msd_2.i/2-071896.b/dftpp288.m
Meth Date : 18-Jul-1996 07:42
Cal Date : Cal File:
Als bottle: 6 QC Sample: DFTPP
Dil Factor: 1.000 Target Version: Target 2.20
Integrator: HP RTE Compound Sublist: all.sub
Sample Type: WATER

RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE		RATIO
dftpp					CAS #: 5074-71-5		
7.888(0.000)	198	208480					100.00(Q)
7.888(0.000)	51	63098			0.00-	0.00	30.27
7.888(0.000)	68	42			0.00-	0.00	0.04
7.888(0.000)	69	99301			0.00-	0.00	47.63
7.888(0.000)	70	0			0.00-	0.00	0.00
7.888(0.000)	127	88501			0.00-	0.00	42.45
7.888(0.000)	197	0			0.00-	0.00	0.00
7.888(0.000)	199	14609			0.00-	0.00	7.01
7.888(0.000)	275	59680			0.00-	0.00	28.63
7.888(0.000)	365	10497			0.00-	0.00	5.04
7.888(0.000)	441	75533			0.00-	0.00	83.95
7.888(0.000)	442	475912			0.00-	0.00	228.28
7.888(0.000)	443	89970			0.00-	0.00	18.90

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Ecosys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: TUNE FOR INSTRUMENT msd2.i

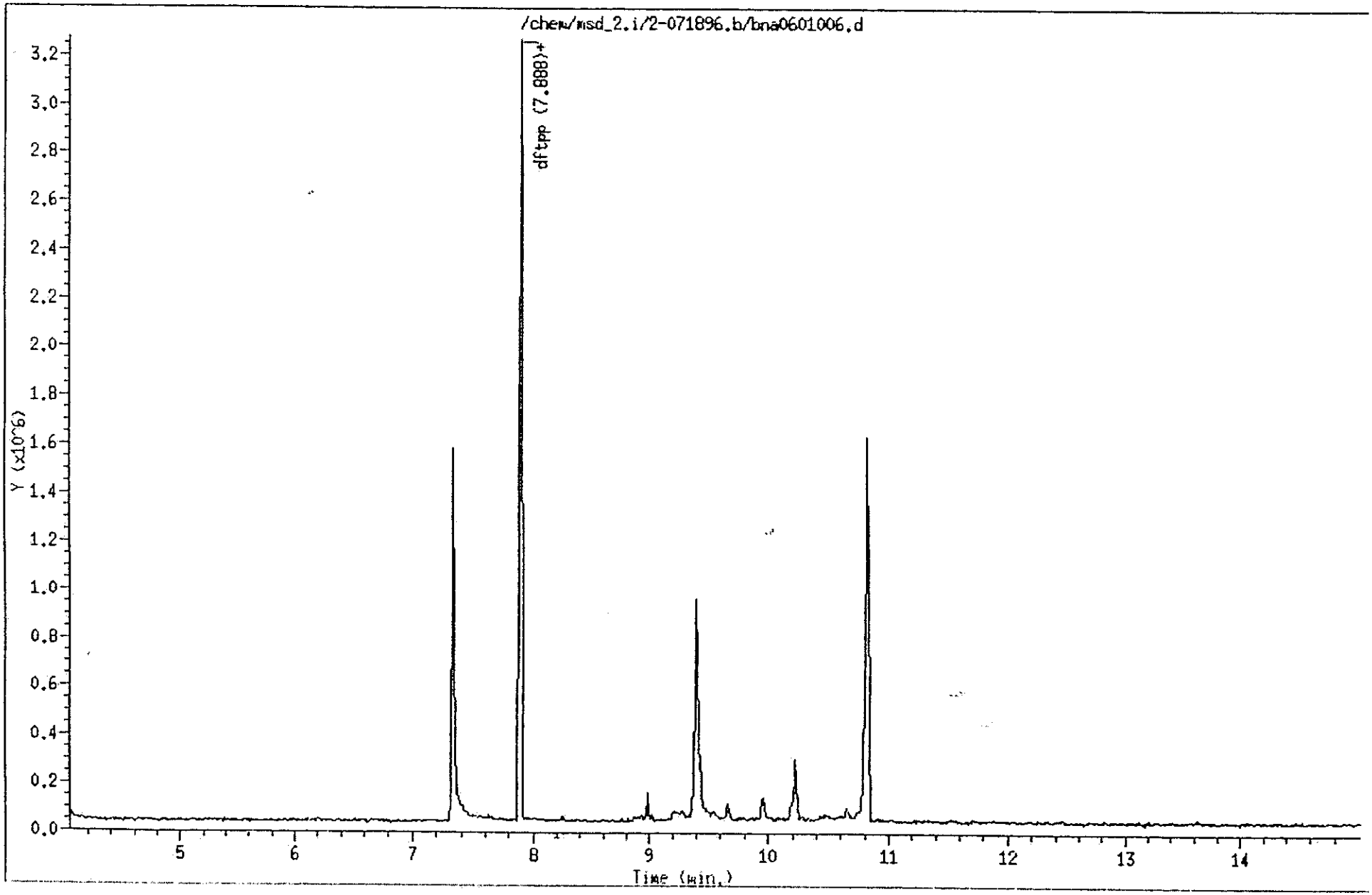
Client SDG: 2-071896.b
Sample Date:
Sample Point:
Date Received:

Level: LOW
Column Number: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
5074-71-5	dftpp	0.0	

Data File: /chem/msd_2.i/2-071896.b/bna0601006.d
Date : 18-JUL-96 15:49
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00



Data File: /chem/msd_2.i/2-071896.b/bna0601006.d

Date : 18-JUL-96 15:49

trument : msd_2.i

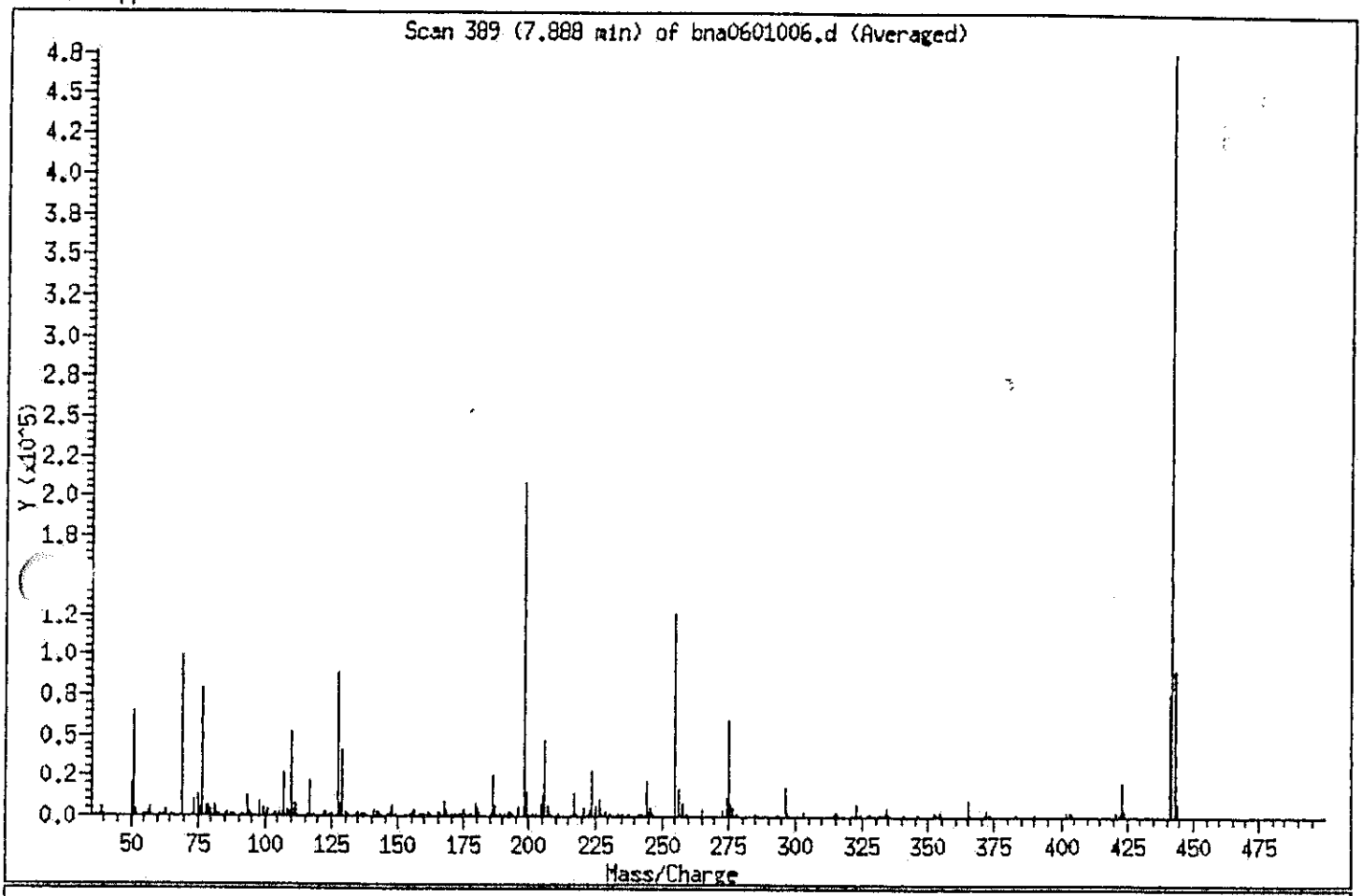
Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	30.3
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	47.6
70	Mass 70 relative abundance	0.0
127	Mass 127 relative abundance	42.5
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	7.0
275	Mass 275 relative abundance	28.6
365	Mass 365 relative abundance	5.0
441	Mass 441 relative abundance	84.0
442	Mass 442 relative abundance	228.3
443	Mass 443 relative abundance	18.9

Data File: /chem/msd_2.i/2-071896.b/bna0601006.d
Date : 18-JUL-96 15:49
Document : msd_2.i
Sample ID : DFTFP02
Column phase : Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 389-391 (7.888 min) Subtraction Scan 386
Base Peak: 442.00
Number of mass peaks: 343

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
37.00	212	143.00	264	231.00	854	333.00	550
38.00	1016	144.00	381	232.00	208	334.00	4758
39.00	4740	145.00	305	234.00	809	335.00	1130
40.00	688	146.00	691	235.00	1091	339.00	166
41.00	338	147.00	2785	236.00	462	340.00	100
42.00	123	148.00	5200	237.00	985	341.00	1010
44.00	508	149.00	1334	238.00	240	342.00	207
46.00	330	150.00	532	239.00	477	345.00	213
48.00	337	151.00	608	240.00	545	346.00	1293
50.00	19941	152.00	115	241.00	745	347.00	201
51.00	63098	153.00	1587	242.00	1509	349.00	84
52.00	3191	154.00	697	243.00	445	352.00	2520
54.00	300	155.00	2378	244.00	21487	353.00	1870
55.00	399	156.00	3416	245.00	2419	354.00	1967
56.00	1895	157.00	127	246.00	4659	355.00	241
57.00	4563	158.00	778	247.00	1021	356.00	158
61.00	1200	159.00	436	249.00	625	358.00	68
62.00	1146	160.00	1634	250.00	343	359.00	162
63.00	3254	161.00	2320	251.00	330	362.00	69
64.00	507	162.00	739	252.00	100	364.00	76
65.00	1192	163.00	108	253.00	481	365.00	10497
66.00	286	164.00	76	255.00	125238	366.00	980
68.00	42	165.00	1670	256.00	16764	367.00	73
69.00	99301	166.00	641	257.00	1242	370.00	225
70.00	234	167.00	8594	258.00	7194	371.00	795
71.00	194	168.00	3682	259.00	945	372.00	4317
73.00	628	169.00	576	260.00	358	373.00	1622
74.00	10104	170.00	700	261.00	304	374.00	73
75.00	13755	171.00	137	262.00	190	375.00	146
76.00	4753	172.00	707	264.00	421	377.00	96
77.00	77978	173.00	1152	265.00	3136	379.00	73
78.00	5984	174.00	1790	266.00	3	382.00	66
79.00	6466	175.00	3435	268.00	608	383.00	1325
80.00	3822	176.00	1064	269.00	259	384.00	492
81.00	6193	177.00	1712	271.00	222	385.00	68

Data File: /chem/msd_2.i/2-071896.b/bna0601006.d
Date : 18-JUL-96 15:49
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

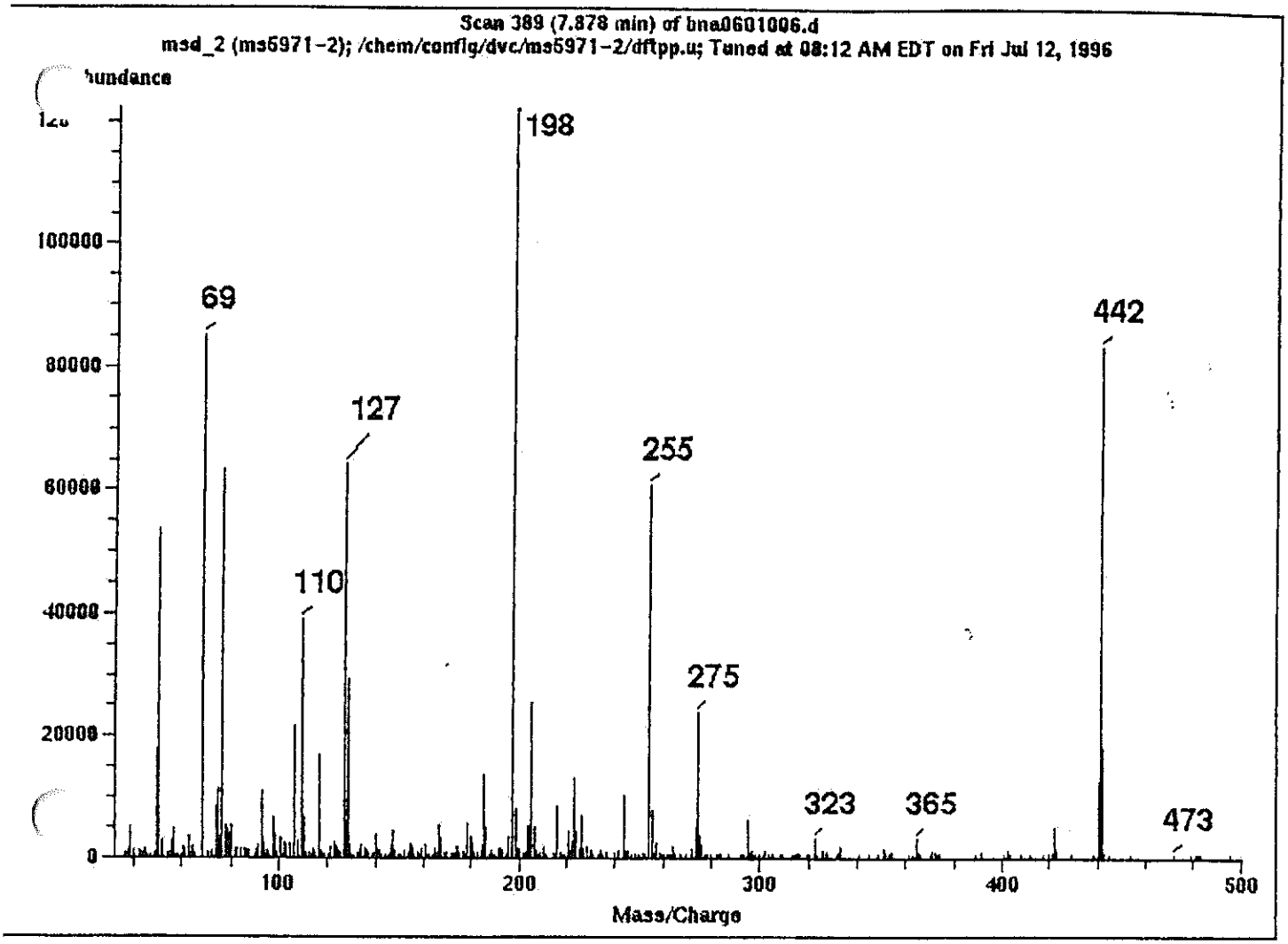
Spectrum: Scan 389-391 (7.888 min) Subtraction Scan 386
Base Peak: 442.00
Number of mass peaks: 343

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
82.00	1479	178.00	851	272.00	113	389.00	102
83.00	1421	179.00	7027	273.00	3925	390.00	664
85.00	841	180.00	4781	274.00	11451	391.00	514
86.00	2045	181.00	2778	275.00	59680	392.00	454
87.00	326	182.00	509	276.00	8087	393.00	133
88.00	825	184.00	486	277.00	4267	398.00	91
90.00	423	185.00	2718	278.00	477	401.00	489
91.00	1376	186.00	25295	281.00	125	402.00	1932
92.00	852	187.00	6384	282.00	212	403.00	2738
93.00	11757	188.00	613	283.00	551	404.00	921
94.00	544	189.00	1784	284.00	544	405.00	267
95.00	703	190.00	52	285.00	1006	406.00	121
96.00	63	191.00	1076	286.00	75	409.00	103
98.00	8940	192.00	1743	287.00	138	412.00	75
99.00	4830	193.00	2579	288.00	170	415.00	69
100.00	636	194.00	1091	289.00	105	418.00	256
101.00	3571	195.00	274	291.00	79	419.00	85
103.00	1233	196.00	5043	292.00	176	421.00	2284
104.00	2003	198.00	208480	293.00	1097	422.00	1441
105.00	2496	199.00	14609	294.00	301	423.00	20361
107.00	26295	200.00	1001	296.00	17315	424.00	3994
108.00	3493	201.00	1173	297.00	2275	425.00	375
110.00	51525	202.00	519	298.00	240	426.00	89
111.00	7606	203.00	1478	299.00	185	427.00	107
112.00	467	204.00	7337	300.00	173	430.00	67
113.00	465	205.00	12396	301.00	121	431.00	70
114.00	233	206.00	46493	302.00	301	432.00	138
115.00	132	207.00	6118	303.00	2555	433.00	92
116.00	1437	208.00	1076	304.00	142	434.00	93
117.00	20713	209.00	366	306.00	73	436.00	73
118.00	1381	210.00	572	308.00	267	438.00	213
120.00	289	211.00	1772	309.00	380	441.00	75533
121.00	364	212.00	334	310.00	204	442.00	475912
122.00	1785	213.00	255	311.00	149	443.00	89970
123.00	2668	214.00	175	312.00	83	444.00	7644

Data File: /chem/msd_2.i/2-071896.b/bna0601006.d
Date : 18-JUL-96 15:49
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 389-391 (7.888 min) Subtraction Scan 386
Base Peak: 442.00
Number of mass peaks: 343

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
124.00	1877	215.00	478	313.00	232	445.00	532
125.00	1202	216.00	1417	314.00	1051	446.00	163
126.00	350	217.00	13979	315.00	2006	455.00	77
127.00	88501	218.00	1405	316.00	1003	458.00	90
128.00	7403	219.00	371	317.00	1	461.00	116
129.00	40172	220.00	502	320.00	114	468.00	76
130.00	2939	221.00	4734	321.00	706	473.00	161
131.00	814	222.00	843	323.00	7343	474.00	89
134.00	637	223.00	3664	324.00	798	480.00	72
135.00	2522	224.00	27473	325.00	146	482.00	155
136.00	1007	225.00	6874	326.00	163	483.00	155
137.00	861	226.00	374	327.00	1300	485.00	92
138.00	678	227.00	10535	328.00	681	496.00	67
140.00	582	228.00	1807	329.00	193	498.00	82
141.00	3964	229.00	2706	330.00	169	499.00	72
142.00	1339	230.00	343	332.00	709		



Mass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	43.6
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	69.5
70	Less than 2.0% of mass 69	0.0
127	40.0 to 60.0% of mass 198	52.4
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	19.4
365	Greater than 1% of mass 198	2.3
441	Present, but less than mass 443	71.2
442	Greater than 40.0% of mass 198	68.2
443	17.0 - 23.0% of mass 442	21.4

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i
Lab File ID: bna0701007.d
Analysis Type: WATER
Lab Sample ID:

Injection Date: 18-JUL-1996 16:09
Init. Calibration Date(s): 05/28/93 07/18/96
Init. Calibration Times: 15:51 14:45
Method File: /chem/msd_2.i/2-071896.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
2-Fluorophenol	0.875	0.813	0.050	7.1	30.0
Aniline	1.350	1.327	0.050	1.7	30.0
Phenol-d5	1.127	1.101	0.050	2.3	30.0
Phenol **	1.028	0.952	0.050	7.4	30.0
Bis(2-chloroethyl) ether	1.022	0.970	0.050	5.1	30.0
2-Chlorophenol	1.094	1.082	0.050	1.1	30.0
1,3-Dichlorobenzene	1.312	1.317	0.050	0.4	30.0
1,4-Dichlorobenzene **	1.255	1.261	0.050	0.4	30.0
1,2-Dichlorobenzene	1.250	1.246	0.050	0.4	30.0
Benzyl alcohol	0.912	0.876	0.050	3.9	30.0
2-Methylphenol	0.841	0.804	0.050	4.3	30.0
is(2-chloroisopropyl) ether	0.507	0.371	0.050	26.9	30.0
-Nitrosodi-n-propylamine *	0.707	0.714	0.050	1.0	30.0
4-Methylphenol	0.799	0.813	0.050	1.7	30.0
Hexachloroethane	0.568	0.561	0.050	1.1	30.0
Nitrobenzene-d5	0.401	0.402	0.050	0.2	30.0
Nitrobenzene	0.348	0.363	0.050	4.5	30.0
Isophorone	0.746	0.757	0.050	1.4	30.0
2-Nitrophenol **	0.262	0.284	0.050	8.4	30.0
2,4-Dimethylphenol	0.384	0.374	0.050	2.6	30.0
Bis(2-chloroethoxy)methane	0.439	0.432	0.050	1.8	30.0
2,4-Dichlorophenol **	0.329	0.343	0.050	4.3	30.0
Benzoic acid	0.247	0.282	0.050	14.1	30.0
1,2,4-Trichlorobenzene	0.362	0.374	0.050	3.3	30.0
Naphthalene	0.927	0.918	0.050	1.0	30.0
4-Chloroaniline	0.389	0.431	0.050	10.6	30.0
Hexachlorobutadiene **	0.262	0.269	0.050	2.6	30.0
4-Chloro-3-methylphenol **	0.351	0.354	0.050	0.9	30.0
2-Methylnaphthalene	0.662	0.646	0.050	2.5	30.0
Hexachlorocyclopentadiene *	0.399	0.416	0.050	4.2	30.0
2,4,6-Trichlorophenol **	0.394	0.444	0.050	12.8	30.0
2,4,5-Trichlorophenol	0.447	0.444	0.050	0.7	30.0
2-Fluorobiphenyl	1.277	1.212	0.050	5.1	30.0
2-Chloronaphthalene	1.077	1.025	0.050	4.9	30.0
2-Nitroaniline	0.325	0.308	0.050	5.3	30.0
Dimethyl phthalate	1.492	1.438	0.050	3.7	30.0
,6-Dinitrotoluene	0.331	0.342	0.050	3.4	30.0
cenaphthylene	1.692	1.656	0.050	2.1	30.0
3-Nitroaniline	0.261	0.235	0.050	9.9	30.0
Acenaphthene **	1.063	1.007	0.050	5.3	30.0
2,4-Dinitrophenol *	0.178	0.170	0.050	4.5	30.0
2,4-Dinitrotoluene	0.427	0.425	0.050	0.4	30.0
4-Nitrophenol *	0.196	0.173	0.050	11.4	30.0
Dibenzofuran	1.457	1.397	0.050	4.1	30.0

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i
Lab File ID: bna0701007.d
Analysis Type: WATER
Lab Sample ID:

Injection Date: 18-JUL-1996 16:09
Init. Calibration Date(s): 05/28/93 07/18/96
Init. Calibration Times: 15:51 14:45
Method File: /chem/msd_2.i/2-071896.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
Fluorene	1.185	1.119	0.050	5.6	30.0
4-Chlorophenyl phenyl ether	0.604	0.572	0.050	5.3	30.0
4-Nitroaniline	0.211	0.221	0.050	4.6	30.0
4,6-Dinitro-2-methylphenol	0.154	0.182	0.050	17.8	30.0
N-Nitrosodiphenylamine **	0.376	0.372	0.050	1.0	30.0
1,2-Diphenylhydrazine	1.345	1.309	0.050	2.7	30.0
2,4,6-Tribromophenol	0.278	0.283	0.050	1.7	30.0
4-Bromophenyl phenyl ether	0.301	0.295	0.050	2.2	30.0
Hexachlorobenzene	0.412	0.409	0.050	0.9	30.0
Pentachlorophenol **	0.223	0.233	0.050	4.5	30.0
Phenanthrene	1.062	1.028	0.050	3.2	30.0
Anthracene	1.048	1.028	0.050	1.9	30.0
Carbazole	0.516	0.553	0.050	7.2	30.0
Di-n-butyl phthalate	1.502	1.447	0.050	3.6	30.0
Fluoranthene **	1.261	1.244	0.050	1.3	30.0
Pyrene	1.398	1.337	0.050	4.4	30.0
Terphenyl-d14	1.047	0.996	0.050	4.9	30.0
Butyl benzyl phthalate	0.752	0.721	0.050	4.1	30.0
Di(2-ethylhexyl) adipate	0.522	0.504	0.050	3.5	30.0
3,3'-Dichlorobenzidine	0.280	0.286	0.050	2.2	30.0
Benz(a)anthracene	1.231	1.038	0.050	15.7	30.0
Bis(2-ethylhexyl) phthalate	0.915	0.823	0.050	10.1	30.0
Chrysene	1.100	1.038	0.050	5.6	30.0
Di-n-octyl phthalate **	1.850	1.882	0.050	1.7	30.0
Benzo(b)fluoranthene	1.599	1.673	0.050	4.7	30.0
Benzo(k)fluoranthene	1.393	1.518	0.050	9.0	30.0
Benzo(a)pyrene **	1.320	1.347	0.050	2.0	30.0
Indeno(1,2,3-cd)pyrene	1.419	1.463	0.050	3.1	30.0
Dibenz(a,h)anthracene	1.125	1.144	0.050	1.7	30.0
Benzo(g,h,i)perylene	1.149	1.213	0.050	5.6	30.0

SemiVolatiles DFTPP

Lab Name: EcoSys, Inc. Client: ACE SAD

Ledger No: 107899 DFTPP Injection Date: 7/22/96

Lab File ID: DFTPP072296 DFTPP Injection Time: 7:52

Instrument ID: MSD-2 Batch Number: 0717960002

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	33.5	
68	Less than 2.0% of mass 69	0.0	
69	Mass 69 relative abundance	57.5	(1)
70	Less than 2.0% of mass 69	0.5	
127	40.0 - 60.0% of mass 198	45.9	
197	Less than 1.0% of mass 198	0.0	(1)
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.1	
275	10.0 - 30.0% of mass 198	23.6	
365	Greater than 1% of mass 198	2.2	
441	Present, but less than mass 443	81.8	
442	Greater than 40% of mass 198	91.4	
443	17.0 - 23.0% of mass 442	19.4	(2)

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
	01	NA (STD)	BNA-80-38	BNA0101001	07/22/96	11:13 AM	
	02	#24 T-1-S1	AB35671	BNA0301003	07/22/96	1:17 PM	
	03	#118 T-1-S1	AB35667	BNA0501005	07/22/96	3:22 PM	
	04	#22 T-1-S3	AB35670	BNA0401004	07/22/96	2:18 PM	
	05						
	06						
	07						
	08						
	09						
	10						
	11						

NA = Not Applicable

STD = Standard

MB = Method Blank; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate

MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments:

7/24/96 (15 hrs 96

QA/QC OFFICER

Dftpp3

Printed: 8/16/96/10:42 AM

Ecosys, Inc.

Data file : /chem/msd_2.i/2-072296.b/DFTPP072296.d
Lab. Id. : DFTPP02
Inj Date : 22-JUL-96 07:52 Autotune Date: 22-Jul-96 07:51:4
Operator : BINA Inst ID: msd_2.i
Smp Info : 50NG of dft-05-39
Misc Info : TUNE FOR INSTRUMENT msd2.i
Comment :
Method : /chem/msd_2.i/2-071896.b/dftpp288.m
Meth Date : 18-Jul-1996 07:42
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.000 Target Version: Target 2.20
Integrator: HP RTE Compound Sublist: all.sub
Sample Type: WATER

RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE		RATIO
dftpp					CAS #: 5074-71-5		
7.904(0.000)	198	194648					100.00(Q)
7.904(0.000)	51	58151			0.00-	0.00	29.87
7.904(0.000)	68	0			0.00-	0.00	0.00
7.904(0.000)	69	101440			0.00-	0.00	52.11
7.904(0.000)	70	304			0.00-	0.00	0.30
7.904(0.000)	127	85656			0.00-	0.00	44.01
7.904(0.000)	197	0			0.00-	0.00	0.00
7.904(0.000)	199	12841			0.00-	0.00	6.60
7.904(0.000)	275	46461			0.00-	0.00	23.87
7.904(0.000)	365	4997			0.00-	0.00	2.57
7.904(0.000)	441	34685			0.00-	0.00	81.46
7.904(0.000)	442	227338			0.00-	0.00	116.79
7.904(0.000)	443	42579			0.00-	0.00	18.73

QC Flag Legend

- Qualifier signal failed the ratio test.

Ecosys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: TUNE FOR INSTRUMENT msd2.i

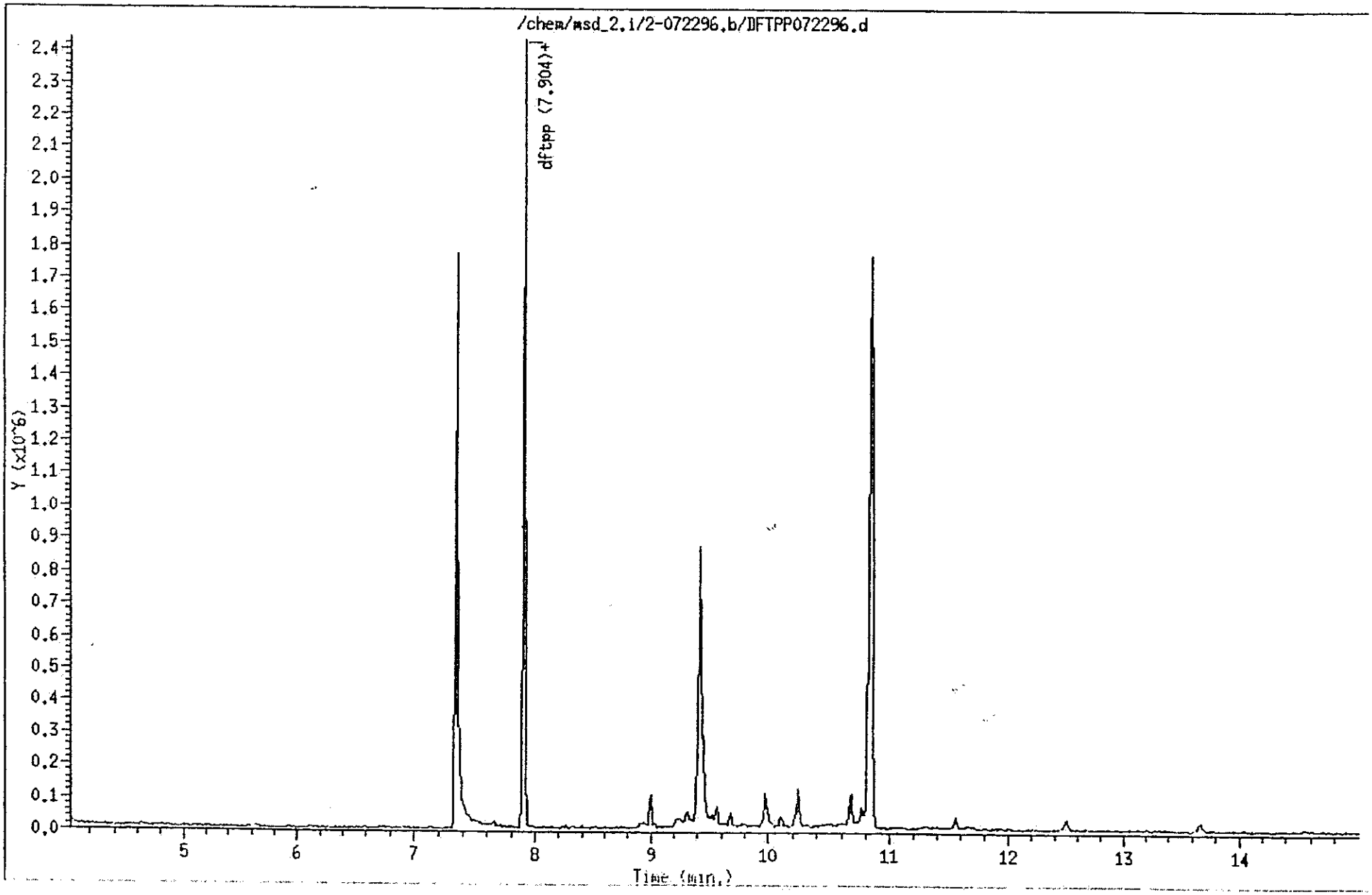
Client SDG: 2-071896.b
Sample Date:
Sample Point:
Date Received:

Level: LOW
Column Number: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
5074-71-5	dftpp	0.0	

Data File: /chem/msd_2.i/2-072296.b/DFTPP072296.d
Date : 22-JUL-96 07:52
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00



Data File: /chem/msd_2.i/2-072296.b/DFTPP072296.d

: 22-JUL-96 07:52

ument : msd_2.i

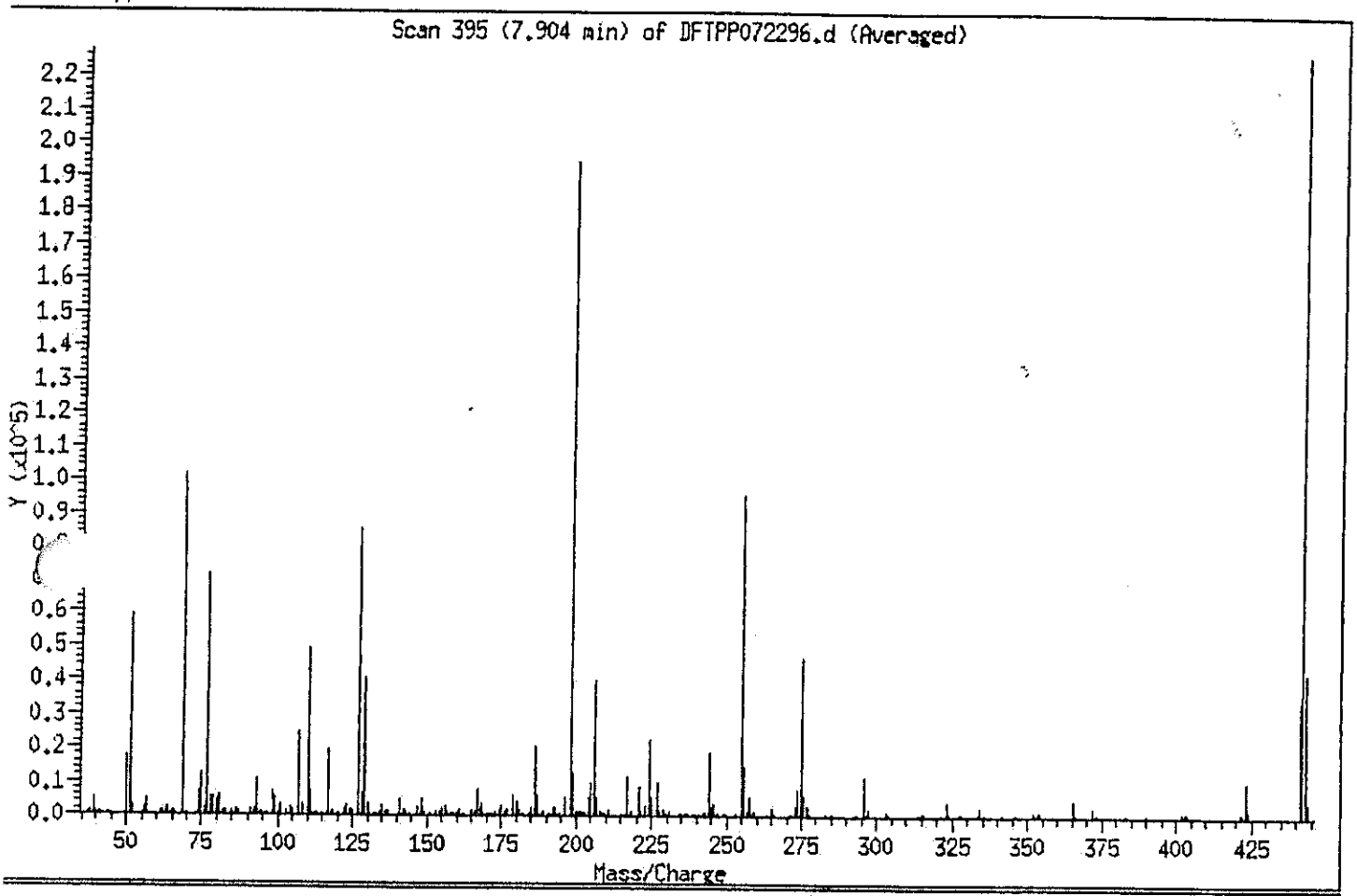
Sample ID : DFTPP02

Column phase :

Column diameter : 2.00

Volume Injected (uL) : 1.0

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	29.9
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	52.1
70	Mass 70 relative abundance	0.3
127	Mass 127 relative abundance	44.0
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	6.6
275	Mass 275 relative abundance	23.9
365	Mass 365 relative abundance	2.6
441	Mass 441 relative abundance	81.5
442	Mass 442 relative abundance	116.8
443	Mass 443 relative abundance	18.7

Data File: /chem/msd_2.i/2-072296.b/DFTPP072296.d
Date : 22-JUL-96 07:52
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.904 min) Subtraction Scan 392
Base Peak: 442.00
Number of mass peaks: 287

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
35.00	71	120.00	304	194.00	681	276.00	5748
37.00	622	121.00	240	195.00	141	277.00	3195
38.00	1154	122.00	1858	196.00	5174	278.00	514
39.00	4509	123.00	2873	198.00	194648	283.00	410
40.00	557	124.00	1662	199.00	12841	284.00	277
41.00	117	125.00	1171	200.00	934	285.00	543
42.00	184	127.00	85656	201.00	972	286.00	110
45.00	71	128.00	6744	203.00	916	291.00	68
48.00	96	129.00	40336	204.00	5290	292.00	270
49.00	235	130.00	3068	205.00	9739	293.00	718
50.00	17355	131.00	588	206.00	40109	294.00	261
51.00	58151	132.00	442	207.00	5344	296.00	11511
52.00	2993	133.00	394	208.00	1288	297.00	1570
53.00	146	134.00	1187	209.00	451	298.00	84
55.00	467	135.00	2854	210.00	469	301.00	73
56.00	2184	136.00	918	211.00	1553	302.00	271
57.00	4889	137.00	1421	214.00	67	303.00	1311
58.00	211	138.00	146	215.00	396	304.00	393
60.00	102	140.00	528	216.00	612	306.00	76
61.00	1053	141.00	4575	217.00	11692	308.00	70
62.00	1009	142.00	1759	218.00	1392	309.00	69
63.00	2652	143.00	1149	219.00	142	310.00	173
64.00	404	144.00	350	220.00	72	314.00	710
65.00	976	145.00	180	221.00	8293	315.00	1149
66.00	204	146.00	700	222.00	964	316.00	823
67.00	240	147.00	2131	223.00	2809	317.00	189
69.00	101440	148.00	4928	224.00	22678	321.00	489
70.00	304	149.00	989	225.00	5225	323.00	4308
71.00	51	150.00	83	226.00	141	324.00	883
73.00	150	151.00	430	227.00	9797	326.00	77
74.00	7152	152.00	235	228.00	1510	327.00	646
75.00	12544	153.00	1475	229.00	1905	328.00	411
76.00	2352	154.00	1013	230.00	139	332.00	238
77.00	71182	155.00	2297	231.00	1055	333.00	458
78.00	5218	156.00	3227	232.00	165	334.00	2139

Data File: /chem/msd_2.i/2-072296.b/DFTPP072296.d
Date : 22-JUL-96 07:52
Instrument : msd_2.i
Sample ID : DFTPP02
Column phase : Column diameter : 2.00
Volume Injected (uL) : 1.0

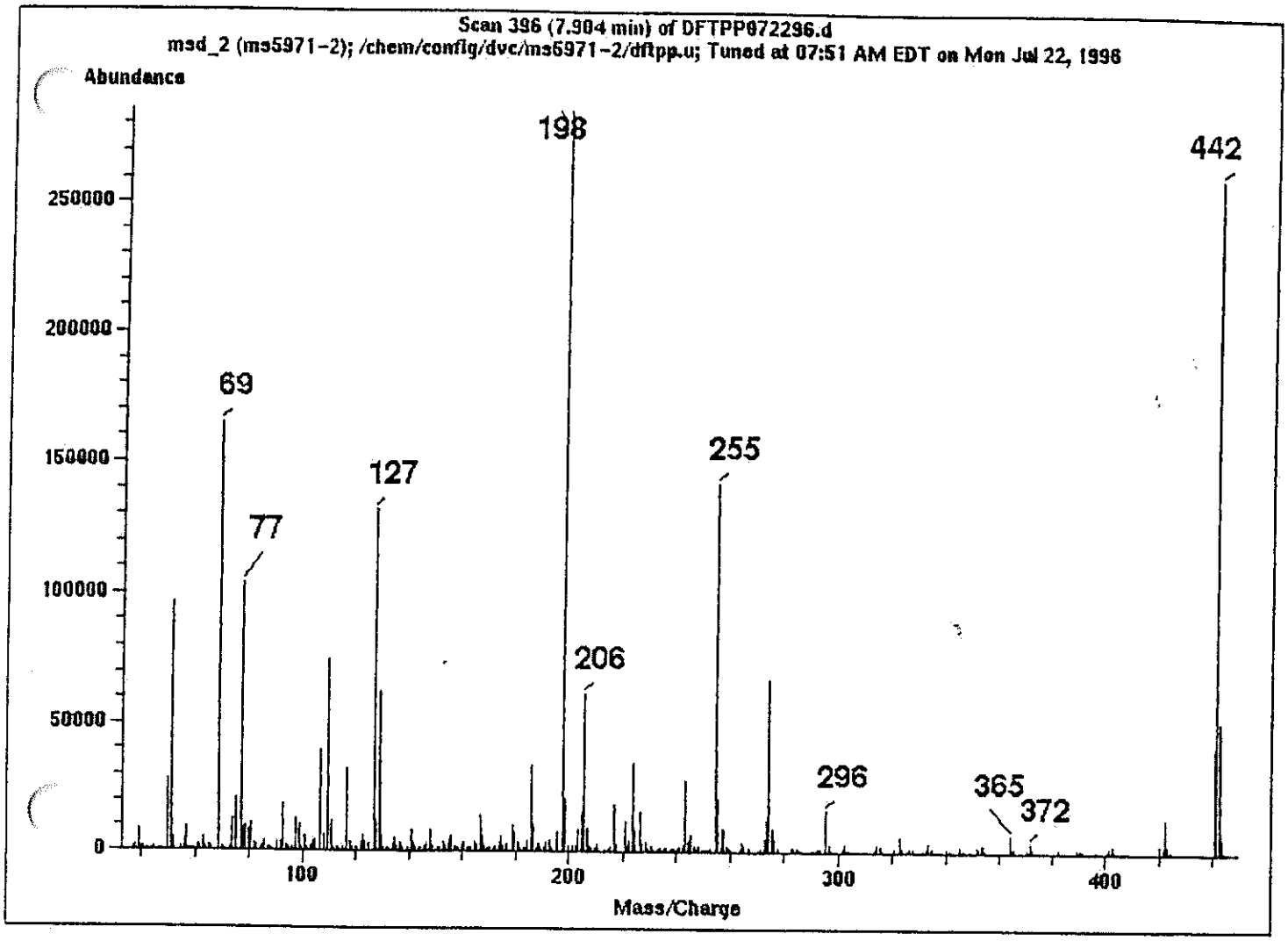
Spectrum: Scan 395-397 (7.904 min) Subtraction Scan 392
Base Peak: 442.00
Number of mass peaks: 287

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
79.00	5314	157.00	857	233.00	165	335.00	603
80.00	4383	158.00	818	234.00	717	341.00	582
81.00	5997	159.00	510	235.00	652	342.00	211
82.00	1281	160.00	1388	236.00	456	346.00	800
83.00	1386	161.00	2064	237.00	597	347.00	81
85.00	1053	162.00	542	238.00	73	352.00	1209
86.00	1496	163.00	202	239.00	376	353.00	825
87.00	959	164.00	139	240.00	405	354.00	1271
88.00	248	165.00	1551	241.00	554	355.00	202
89.00	235	166.00	1422	242.00	1080	365.00	4997
91.00	1670	167.00	7793	243.00	922	366.00	740
92.00	1802	168.00	3439	244.00	18784	370.00	68
93.00	10848	169.00	530	245.00	2487	371.00	274
94.00	583	170.00	101	246.00	3430	372.00	2488
95.00	466	171.00	400	247.00	692	373.00	581
96.00	149	172.00	657	248.00	108	377.00	69
98.00	7546	173.00	959	249.00	770	383.00	539
99.00	5736	174.00	1814	250.00	306	384.00	96
100.00	613	175.00	3274	252.00	207	390.00	381
101.00	2954	176.00	950	253.00	340	391.00	247
102.00	148	177.00	1584	255.00	96082	392.00	197
103.00	1062	178.00	298	256.00	14265	397.00	79
104.00	1947	179.00	6118	257.00	992	401.00	81
105.00	2094	180.00	3988	258.00	5542	402.00	1062
106.00	181	181.00	2010	259.00	1090	403.00	1452
107.00	24651	182.00	434	260.00	158	404.00	436
108.00	3680	183.00	135	261.00	95	421.00	1409
109.00	59	184.00	690	264.00	100	422.00	1298
110.00	48964	185.00	2697	265.00	1840	423.00	10351
111.00	7268	186.00	20370	266.00	837	424.00	2113
112.00	623	187.00	6069	268.00	206	425.00	187
113.00	494	188.00	660	270.00	88	441.00	34685
114.00	74	189.00	1257	271.00	317	442.00	227338
115.00	458	190.00	296	272.00	307	443.00	42579
116.00	732	191.00	779	273.00	3161	444.00	4123

Data File: /chem/msd_2.i/2-072296.b/DFTPP072296.d
Date : 22-JUL-96 07:52
Acquisition : msd_2.i
Sample ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 395-397 (7.904 min) Subtraction Scan 392
Base Peak: 442.00
Number of mass peaks: 287

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
117.00	19206	192.00	2200	274.00	8117	445.00	260
118.00	1422	193.00	2287	275.00	46461		



Mass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	33.5
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	57.5
70	Less than 2.0% of mass 69	0.5
127	40.0 to 60.0% of mass 198	45.9
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	23.6
365	Greater than 1% of mass 198	2.2
441	Present, but less than mass 443	81.8
442	Greater than 40.0% of mass 198	91.4
443	17.0 - 23.0% of mass 442	19.4

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i
Lab File ID: bna0101001.d
Analysis Type: WATER
Lab Sample ID:

Injection Date: 22-JUL-1996 11:13
Init. Calibration Date(s): 05/28/93 07/18/96
Init. Calibration Times: 15:51 09:16
Method File: /chem/msd_2.i/2-072296.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D	
2-Fluorophenol	0.875	1.057	0.050	20.8	30.0	
Aniline	1.350	1.353	0.050	0.2	30.0	
Phenol-d5	1.127	1.284	0.050	13.9	30.0	
Phenol **	1.028	1.173	0.050	14.1	30.0	
Bis(2-chloroethyl) ether	0.888	1.129	0.050	27.2	30.0	
2-Chlorophenol	1.094	1.175	0.050	7.4	30.0	
1,3-Dichlorobenzene	1.312	1.374	0.050	4.7	30.0	
1,4-Dichlorobenzene **	1.255	1.335	0.050	6.4	30.0	
1,2-Dichlorobenzene	1.250	1.325	0.050	6.0	30.0	
Benzyl alcohol	0.912	1.006	0.050	10.3	30.0	
2-Methylphenol	0.841	0.905	0.050	7.7	30.0	
Bis(2-chloroisopropyl) ether	0.507	0.554	0.050	9.2	30.0	
N-Nitrosodi-n-propylamine *	0.707	0.838	0.050	18.5	30.0	
4-Methylphenol	0.799	0.974	0.050	21.9	30.0	
Hexachloroethane	0.568	0.627	0.050	10.4	30.0	
Nitrobenzene-d5	0.401	0.444	0.050	10.7	30.0	
Nitrobenzene	0.348	0.406	0.050	16.8	30.0	
Isophorone	0.746	0.876	0.050	17.3	30.0	
2-Nitrophenol **	0.262	0.269	0.050	2.8	30.0	
2,4-Dimethylphenol	0.384	0.403	0.050	4.9	30.0	
Bis(2-chloroethoxy)methane	0.439	0.518	0.050	17.9	30.0	
2,4-Dichlorophenol **	0.329	0.356	0.050	8.0	30.0	
Benzoic acid	0.260	0.230	0.050	11.2	30.0	
1,2,4-Trichlorobenzene	0.362	0.385	0.050	6.4	30.0	
Naphthalene	0.927	0.992	0.050	7.1	30.0	
4-Chloroaniline	0.389	0.293	0.050	24.7	30.0	
Hexachlorobutadiene **	0.262	0.252	0.050	3.7	30.0	
4-Chloro-3-methylphenol **	0.351	0.368	0.050	5.0	30.0	
2-Methylnaphthalene	0.662	0.649	0.050	2.0	30.0	
Hexachlorocyclopentadiene *	0.399	0.380	0.050	4.8	30.0	
2,4,6-Trichlorophenol **	0.394	0.358	0.050	9.0	30.0	
2,4,5-Trichlorophenol	0.447	0.425	0.050	5.0	30.0	
2-Fluorobiphenyl	1.277	1.213	0.050	5.0	30.0	
2-Chloronaphthalene	1.077	1.037	0.050	3.7	30.0	
2-Nitroaniline	0.325	0.360	0.050	10.9	30.0	
Dimethyl phthalate	1.492	1.419	0.050	4.9	30.0	
2,6-Dinitrotoluene	0.331	0.339	0.050	2.3	30.0	
Acenaphthylene	1.692	1.656	0.050	2.1	30.0	
3-Nitroaniline	0.275	0.169	0.050	38.5	30.0	<-
Acenaphthene **	1.063	0.987	0.050	7.2	30.0	
2,4-Dinitrophenol *	0.178	0.150	0.050	15.7	30.0	
2,4-Dinitrotoluene	0.427	0.445	0.050	4.2	30.0	
4-Nitrophenol *	0.193	0.228	0.050	17.8	30.0	
Dibenzofuran	1.457	1.414	0.050	2.9	30.0	

Ecosys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd_2.i
Lab File ID: bna0101001.d
Analysis Type: WATER
Lab Sample ID:

Injection Date: 22-JUL-1996 11:13
Init. Calibration Date(s): 05/28/93 07/18/96
Init. Calibration Times: 15:51 09:16
Method File: /chem/msd_2.i/2-072296.b/MA-BNA.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
Fluorene	1.185	1.111	0.050	6.3	30.0
4-Chlorophenyl phenyl ether	0.604	0.569	0.050	5.7	30.0
4-Nitroaniline	0.211	0.209	0.050	1.1	30.0
4,6-Dinitro-2-methylphenol	0.154	0.175	0.050	13.5	30.0
N-Nitrosodiphenylamine **	0.376	0.320	0.050	14.7	30.0
1,2-Diphenylhydrazine	1.345	1.573	0.050	16.9	30.0
2,4,6-Tribromophenol	0.278	0.231	0.050	16.8	30.0
4-Bromophenyl phenyl ether	0.301	0.290	0.050	3.8	30.0
Hexachlorobenzene	0.412	0.376	0.050	8.9	30.0
Pentachlorophenol **	0.223	0.228	0.050	2.2	30.0
Phenanthrene	1.062	1.138	0.050	7.2	30.0
Anthracene	1.048	1.061	0.050	1.2	30.0
Carbazole	0.516	0.373	0.050	27.7	30.0
Di-n-butyl phthalate	1.502	1.566	0.050	4.3	30.0
Fluoranthene **	1.261	1.239	0.050	1.8	30.0
Pyrene	1.398	1.360	0.050	2.7	30.0
Terphenyl-d14	1.047	0.971	0.050	7.2	30.0
Butyl benzyl phthalate	0.752	0.786	0.050	4.6	30.0
Di(2-ethylhexyl) adipate	0.522	0.561	0.050	7.5	30.0
3,3'-Dichlorobenzidine	0.280	0.207	0.050	26.1	30.0
Benz(a)anthracene	1.231	1.256	0.050	2.1	30.0
Bis(2-ethylhexyl) phthalate	0.915	0.924	0.050	1.0	30.0
Chrysene	1.100	1.079	0.050	1.9	30.0
Di-n-octyl phthalate **	1.919	1.913	0.050	0.4	30.0
Benzo(b)fluoranthene	1.572	1.445	0.050	8.1	30.0
Benzo(k)fluoranthene	1.477	1.318	0.050	10.7	30.0
Benzo(a)pyrene **	1.335	1.296	0.050	3.0	30.0
Indeno(1,2,3-cd)pyrene	1.421	1.485	0.050	4.5	30.0
Dibenz(a,h)anthracene	1.127	1.170	0.050	3.9	30.0
Benzo(g,h,i)perylene	1.157	1.235	0.050	6.7	30.0

EcoSys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-1993 11:35
End Cal Date : 14-JUN-1996 12:12
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 2.20
Integrator : HP RTE
Method file : /chem/msd3.i/3-061396.b/MA-BNA_2.m
Cal Date : 17-Jun-1996 15:54 target

Calibration File Names:
Level 1: /chem/msd3.i/3-061396.b/BNA0301003.d
Level 2: /chem/msd3.i/3-061396.b/BNA0401004.d
Level 3: /chem/msd3.i/3-061396.b/BNA0501005.d
Level 4: /chem/msd3.i/3-061396.b/BNA0601006.d
Level 5: /chem/msd3.i/3-061396.b/BNA0901009.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	$\overline{RRF}$	%RSD/R^2
1 N-Nitrosodimethylamine	0.36617	0.37102	0.35435	0.35173	0.34656	0.35797	2.862
4 Aniline	1.34530	1.66583	1.72552	2.05430	2.10577	1.77935	17.466
5 Phenol **	1.80038	1.73699	1.72639	1.73458	1.83630	1.76693	2.761
6 Bis(2-chloroethyl) ether	1.86652	1.72012	1.75510	1.56177	1.52496	1.68569	8.384
7 2-Chlorophenol	1.28935	1.22703	1.25635	1.24220	1.21227	1.24544	2.374
8 1,3-Dichlorobenzene	1.63071	1.56431	1.57411	1.58518	1.60320	1.59150	1.649
10 1,4-Dichlorobenzene **	1.64807	1.57129	1.61750	1.62863	1.64619	1.62234	1.925
11 1,2-Dichlorobenzene	1.59937	1.53480	1.54062	1.55278	1.53124	1.55176	1.794
12 Benzyl alcohol	1.48407	1.51261	1.52067	1.51363	1.48260	1.50272	1.196
13 2-Methylphenol	1.22957	1.13821	1.15724	1.18234	1.13652	1.16877	3.310
14 Bis(2-chloroisopropyl) ether	2.22312	1.97826	1.97707	1.90277	1.85360	1.98697	7.154
15 4-Methylphenol	1.24493	1.21613	1.21187	1.16568	1.15767	1.19925	3.060
16 N-Nitrosodi-n-propylamine *	1.40303	1.29775	1.27230	1.21916	1.18025	1.27450	6.682
17 Hexachloroethane	0.72248	0.70210	0.70177	0.68614	0.67967	0.69843	2.381
19 Nitrobenzene	0.53122	0.53686	0.54806	0.54541	0.53474	0.53926	1.331
20 Isophorone	1.10268	1.08969	1.09977	1.08777	1.04814	1.08561	2.017
21 2-Nitrophenol **	0.19944	0.25436	0.26758	0.26640	0.27349	0.25225	12.025
22 2,4-Dimethylphenol	0.44772	0.45347	0.46493	0.45663	0.45417	0.45538	1.374
23 Bis(2-Chloroethoxy)methane	0.64276	0.59642	0.59251	0.56708	0.50829	0.58141	8.454
24 2,4-Dichlorophenol **	0.32857	0.33239	0.34730	0.34436	0.35321	0.34117	3.034
25 Benzoic acid	+++++	0.20761	0.26492	0.31192	0.31793	0.27960	18.559
26 1,2,4-Trichlorobenzene	0.39082	0.38240	0.39252	0.39299	0.40558	0.39286	2.113
28 Naphthalene	1.09570	1.07662	1.08334	1.09226	1.09721	1.08902	0.806
29 4-Chloroaniline	0.53576	0.43405	0.43556	0.43790	0.41451	0.45155	10.628
30 Hexachlorobutadiene **	0.24800	0.24600	0.24494	0.23523	0.23726	0.24229	2.339
31 4-Chloro-3-methylphenol **	0.38951	0.40304	0.41154	0.41051	0.40457	0.40383	2.181
32 2-Methylnaphthalene	0.73782	0.67884	0.69511	0.68681	0.69867	0.69945	3.258
33 Hexachlorocyclopentadiene *	0.26004	0.32362	0.33389	0.35107	0.33758	0.32124	11.081
34 2,4,6-Trichlorophenol **	0.31649	0.32957	0.33113	0.34370	0.35673	0.33552	4.553

EcoSys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-1993 11:35
End Cal Date : 14-JUN-1996 12:12
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 2.20
Integrator : HP RTE
Method file : /chem/msd3.i/3-061396.b/MA-BNA_2.m
Cal Date : 17-Jun-1996 15:54 target

Calibration File Names:
Level 1: /chem/msd3.i/3-061396.b/BNA0301003.d
Level 2: /chem/msd3.i/3-061396.b/BNA0401004.d
Level 3: /chem/msd3.i/3-061396.b/BNA0501005.d
Level 4: /chem/msd3.i/3-061396.b/BNA0601006.d
Level 5: /chem/msd3.i/3-061396.b/BNA0901009.d

	Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	%RSD/R^2
5	2,4,5-Trichlorophenol	0.36302	0.38920	0.39743	0.40593	0.39323	0.38976	4.152
37	2-Chloronaphthalene	1.20896	1.17124	1.13923	1.16999	1.20667	1.17922	2.467
38	2-Nitroaniline	0.36248	0.46136	0.47385	0.50135	0.49832	0.45947	12.350
39	Dimethyl phthalate	1.59298	1.49246	1.42900	1.45149	1.47653	1.48849	4.247
40	2,6-Dinitrotoluene	0.31643	0.34169	0.34458	0.33593	0.34425	0.33658	3.501
41	Acenaphthylene	1.82260	1.66357	1.61265	1.65562	1.67086	1.68506	4.756
42	3-Nitroaniline	0.32752	0.27084	0.29353	0.30047	0.33620	0.30571	8.650
44	Acenaphthene **	1.21481	1.16302	1.15054	1.17597	1.18167	1.17720	2.058
45	2,4-Dinitrophenol *	+++++	0.09782	0.13176	0.16720	0.19281	0.14740	28.128
46	4-Nitrophenol *	0.27032	0.32238	0.32351	0.35228	0.33549	0.32080	9.563
47	2,4-Dinitrotoluene	0.38245	0.44625	0.45003	0.45660	0.45629	0.43832	7.195
48	Dibenzofuran	1.57835	1.54162	1.50131	1.55994	1.56146	1.54853	1.900
49	Diethyl phthalate	1.69173	1.55629	1.58523	1.47974	1.47812	1.55822	5.662
50	4-Chlorophenyl phenyl ether	0.63026	0.58737	0.59202	0.60236	0.59254	0.60091	2.877
51	Fluorene	1.27143	1.21896	1.22151	1.26786	1.29621	1.25519	2.688
52	4-Nitroaniline	0.15450	0.19810	0.19660	0.19552	0.18177	0.18530	9.941
53	4,6-Dinitro-2-methylphenol	+++++	0.14679	0.16943	0.17996	0.18531	0.17037	10.006
54	N-Nitrosodiphenylamine **	0.35005	0.28458	0.27401	0.28652	0.32375	0.30378	10.530
55	1,2-Diphenylhydrazine	2.53221	2.45506	2.38430	2.56996	2.26064	2.44043	5.056
57	4-Bromophenyl phenyl ether	0.28630	0.27322	0.27135	0.26909	0.25168	0.27033	4.583
58	Hexachlorobenzene	0.34820	0.34338	0.32985	0.32578	0.32998	0.33544	2.906
59	Pentachlorophenol **	0.11995	0.18720	0.19100	0.20484	0.20381	0.18136	19.405
61	Phenanthrene	1.14839	1.12822	1.11628	1.13590	1.17191	1.14014	1.864
62	Anthracene	1.14049	1.09500	1.04803	1.07620	1.08391	1.08873	3.099
63	Carbazole	0.30395	0.24634	0.26342	0.27945	0.33832	0.28629	12.576
4	Di-n-butyl phthalate	2.02381	1.85464	1.80939	1.77154	1.72214	1.83630	6.295
65	Fluoranthene **	1.28069	1.20459	1.20147	1.21154	1.19455	1.21857	2.893
66	Pyrene	1.61931	1.49193	1.44790	1.39191	1.38997	1.46820	6.439
68	Butyl benzyl phthalate	0.97578	0.92747	0.90318	0.85740	0.86707	0.90618	5.297

EcoSys, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-1993 11:35
End Cal Date : 14-JUN-1996 12:12
Quant Method : ISTD
Cal Curve Type : Averaged
Target Version : Target 2.20
Integrator : HP RTE
Method file : /chem/msd3.i/3-061396.b/MA-BNA_2.m
Cal Date : 17-Jun-1996 15:54 target

Calibration File Names:
Level 1: /chem/msd3.i/3-061396.b/BNA0301003.d
Level 2: /chem/msd3.i/3-061396.b/BNA0401004.d
Level 3: /chem/msd3.i/3-061396.b/BNA0501005.d
Level 4: /chem/msd3.i/3-061396.b/BNA0601006.d
Level 5: /chem/msd3.i/3-061396.b/BNA0901009.d

	Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	%RSD/R^2
	69 Dioctyl adipate	0.69780	0.67570	0.64498	0.61015	0.59879	0.64548	6.517
	70 3,3'-Dichlorobenzidine	0.14472	0.14826	0.16418	0.16505	0.18665	0.16177	10.292
	71 Bis(2-ethylhexyl) phthalate	1.39274	1.24539	1.22682	1.21540	1.19997	1.25606	6.224
	72 Benz(a)anthracene	1.22561	1.21803	1.21683	1.20515	1.22065	1.21725	0.621
	74 Chrysene	1.11608	1.06739	1.04371	1.01575	0.98471	1.04553	4.793
	75 Di-n-octyl phthalate **	2.81757	2.70714	2.68087	2.58576	2.52823	2.66391	4.209
	76 Benzo(b)fluoranthene	1.44533	1.48168	1.51308	1.51120	1.62453	1.51516	4.425
	77 Benzo(k)fluoranthene	1.37488	1.29852	1.26318	1.44265	1.12523	1.30089	9.245
	78 Benzo(a)pyrene **	1.26007	1.26837	1.28358	1.25834	1.26603	1.26728	0.790
	80 Indeno(1,2,3-cd)pyrene	1.07073	1.16062	1.21356	1.24639	1.30030	1.19832	7.304
	81 Dibenz(a,h)anthracene	0.94929	1.07973	1.11872	1.13149	1.13887	1.08362	7.242
	82 Benzo(g,h,i)perylene	1.10402	1.16378	1.17752	1.17404	1.18623	1.16112	2.835
I$	2 2-Fluorophenol	1.15206	1.15660	1.17226	1.17706	1.14679	1.16095	1.128
I$	3 Phenol-d5	1.74745	1.69230	1.72262	1.69730	1.68594	1.70912	1.495
I$	18 Nitrobenzene-d5	0.57364	0.57652	0.58843	0.57742	0.58078	0.57936	0.979
I$	36 2-Fluorobiphenyl	1.41481	1.32690	1.31457	1.35883	1.38823	1.36067	3.066
I$	56 2,4,6-Tribromophenol	0.22657	0.25351	0.25562	0.25956	0.25303	0.24966	5.271
I$	67 Terphenyl-d14	1.04512	0.98936	0.96519	0.93598	0.94729	0.97659	4.433

Lab Name: EcoSys, Inc. Client: ACE SAD

Ledger No: 107899 DFTPP Injection Date: 7/19/96

Lab File ID: DFTPP071996 DFTPP Injection Time: 15:45

Instrument ID: MSD-3 Batch Number: 0717960002

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0% of mass 198	53.1	
68	Less than 2.0% of mass 69	0.0	
69	Mass 69 relative abundance	65.9	(1)
70	Less than 2.0% of mass 69	0.0	
127	40.0 - 60.0% of mass 198	45.5	
197	Less than 1.0% of mass 198	0.0	(1)
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.0	
275	10.0 - 30.0% of mass 198	21.3	
365	Greater than 1% of mass 198	2.4	
441	Present, but less than mass 443	69.2	
442	Greater than 40% of mass 198	60.9	
443	17.0 - 23.0% of mass 442	20.1	(2)

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

		CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
	01	NA (STD)	BNA-80-38	BNA0101001	07/19/96	4:15 PM	
	02	#24 T-1-S2	AB35672	BNA0501005	07/19/96	8:09 PM	
	03	#22 T-1-S2	AB35669	BNA0901009	07/20/96	12:03 AM	
	04						
	05						
	06						
	07						
	08						
	09						
	10						
	11						

NA = Not Applicable

STD = Standard

MB = Method Blank; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate

MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments: _____

QA/QC OFFICER

EcoSys, Inc.

Data file : /chem/msd3.i/3-071996.b/dftpp071996.d
Lab. Id. : DFTPP02
Inj Date : 19-JUL-96 15:45 Autotune Date: 16-Jul-96 14:05:0
Operator : BINA Inst ID: msd3.i
Smp Info : 50ng OF DFT-04-(37)
Misc Info : INSTRUMENT TUNE FOR msd3.i
Comment :
Method : /chem/msd3.i/3-071996.b/dftpp288.m
Meth Date : 19-Jul-1996 08:20
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.000 Target Version: Target 2.20
Integrator: HP RTE Compound Sublist: all.sub
Sample Type: WATER

RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE		RATIO
dftpp					CAS #: 5074-71-5		
30(0.000)	198	94088					100.00(Q)
7.480(0.000)	51	53570			0.00-	0.00	56.94
7.480(0.000)	68	0			0.00-	0.00	0.00
7.480(0.000)	69	63570			0.00-	0.00	67.56
7.480(0.000)	70	0			0.00-	0.00	0.00
7.480(0.000)	127	44197			0.00-	0.00	46.97
7.480(0.000)	197	0			0.00-	0.00	0.00
7.480(0.000)	199	5470			0.00-	0.00	5.81
7.480(0.000)	275	19689			0.00-	0.00	20.93
7.480(0.000)	365	2073			0.00-	0.00	2.20
7.480(0.000)	441	8178			0.00-	0.00	72.19
7.480(0.000)	442	57530			0.00-	0.00	61.14
7.480(0.000)	443	11328			0.00-	0.00	19.69

QC Flag Legend

Q - Qualifier signal failed the ratio test.

EcoSys, Inc.

TARGET COMPOUNDS

Client Name:
Client Sample ID: DFTPP02
Sample Location:
Lab Sample ID: DFTPP02
Sample Type: WATER
Analysis Type: SV
Data Type: MS DATA
Misc Info: INSTRUMENT TUNE FOR msd3.i

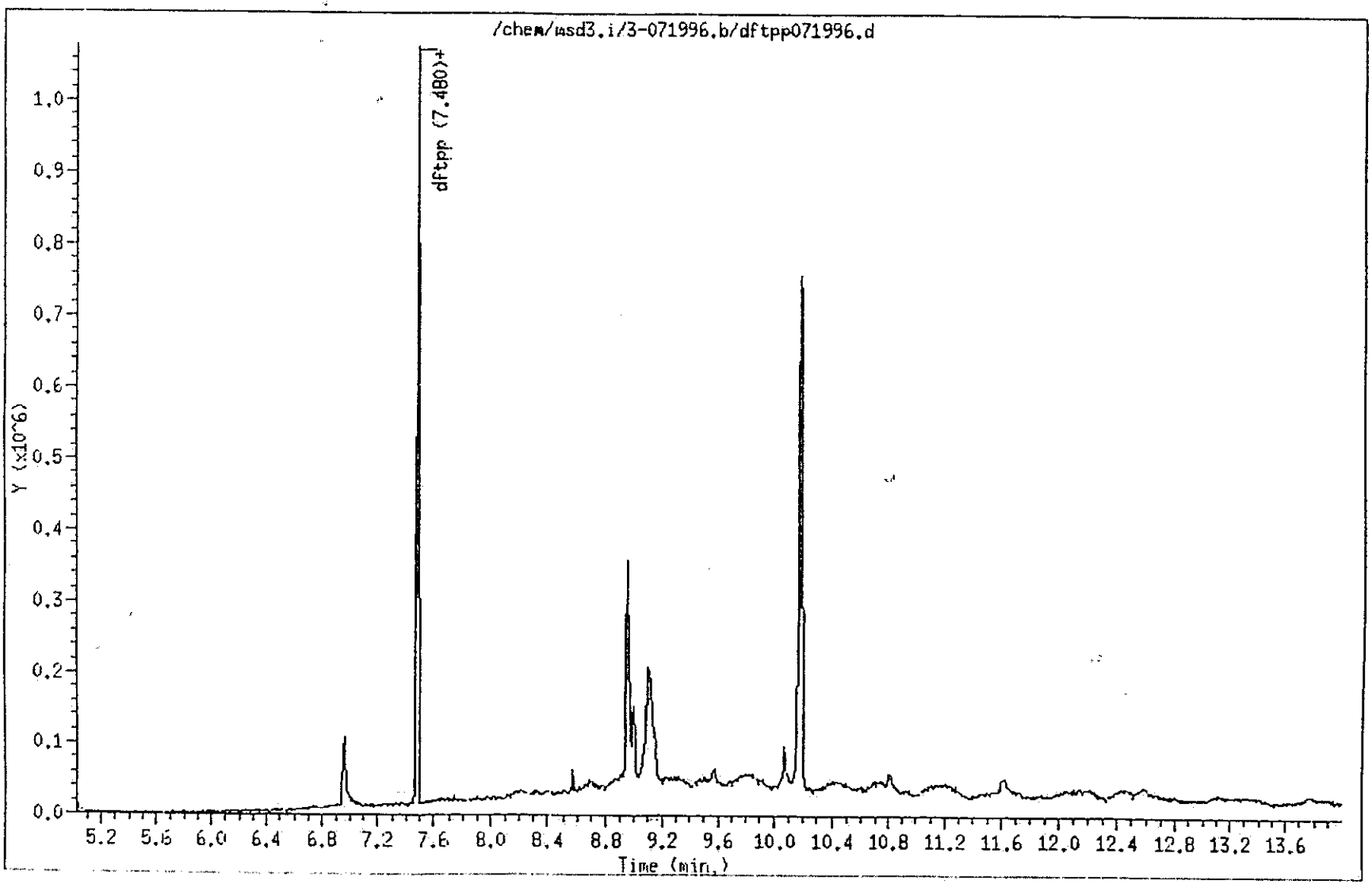
Client SDG: 3-071996.b
Sample Date:
Sample Point:
Date Received:

Level: LOW
Column Number: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
5074-71-5	dftpp	0.0	

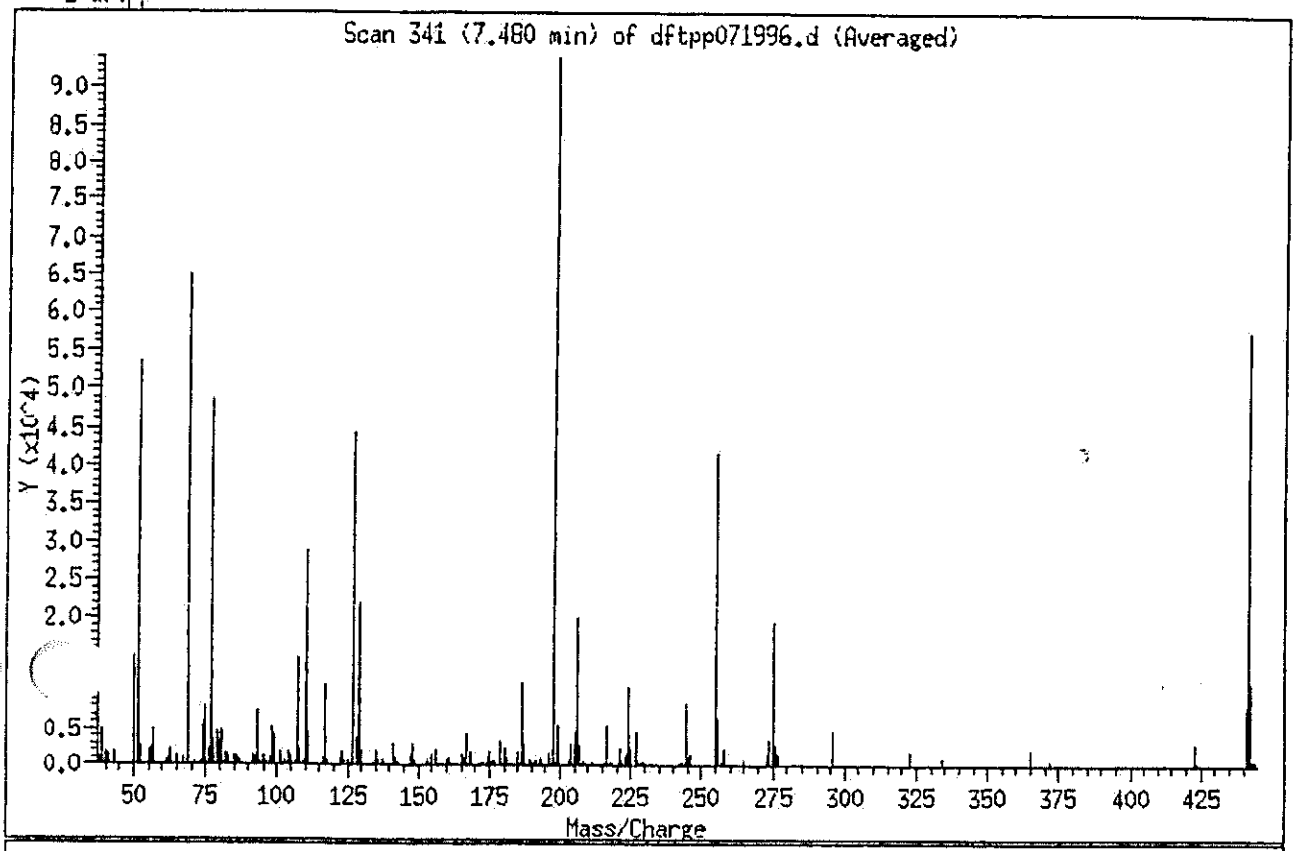
Data File: /chem/msd3.i/3-071996.b/dftpp071996.d
Date : 19-JUL-96 15:45
Instrument : msd3.i
Sample ID : DFTPP02
Column phase :
Volume Injected (uL) : 1.0

Column diameter : 2.00



Data File: /chem/msd3.i/3-071996.b/dftpp071996.d
Date : 19-JUL-96 15:45
Instrument : msd3.i
le ID : DFTPP02
Column phase : Column diameter : 2.00
Volume Injected (uL) : 1.0

1 dftpp

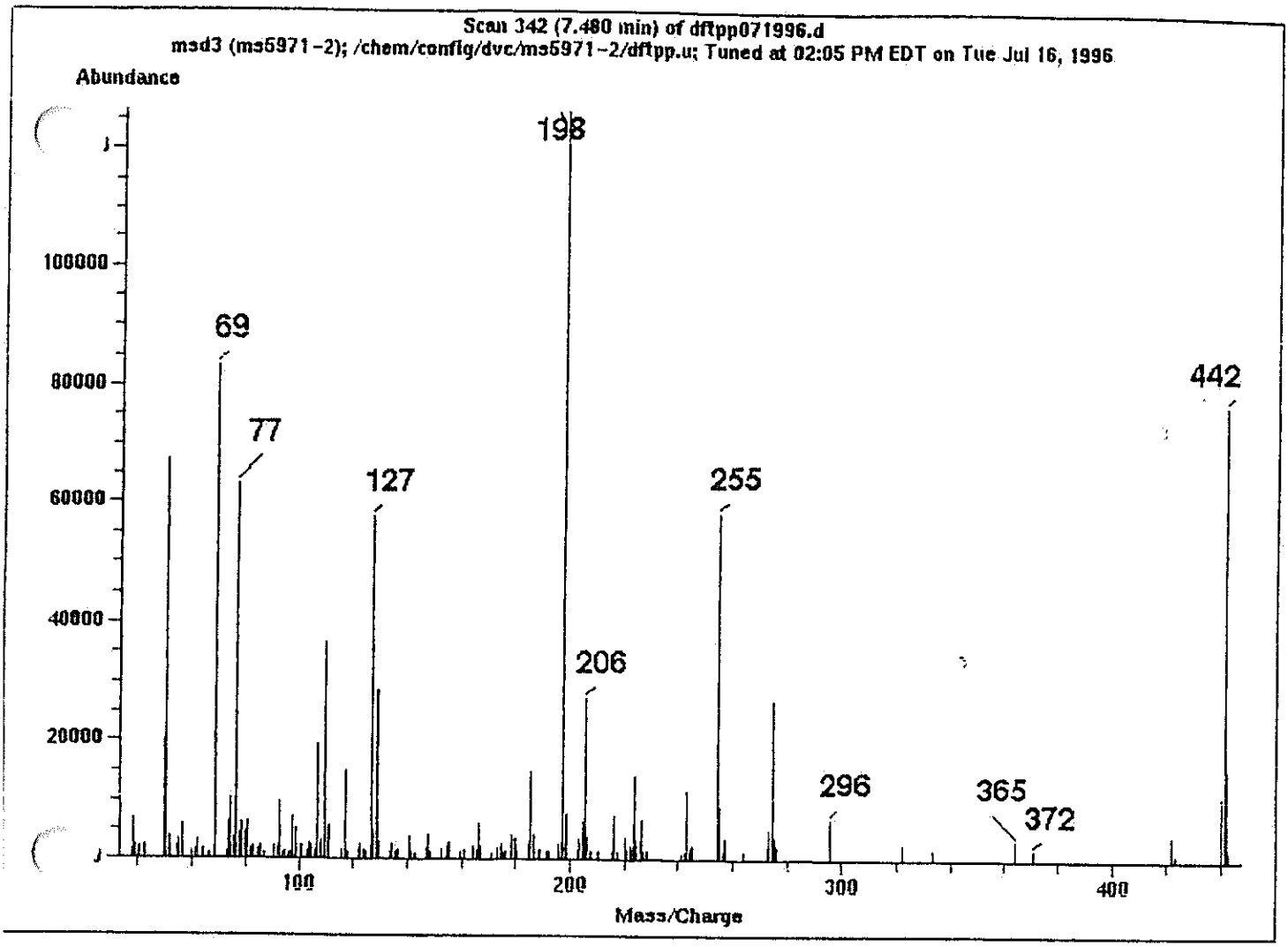


m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.0
51	Mass 51 relative abundance	56.9
68	Mass 68 relative abundance	0.0
69	Mass 69 relative abundance	67.6
70	Mass 70 relative abundance	0.0
127	Mass 127 relative abundance	47.0
197	Mass 197 relative abundance	0.0
199	Mass 199 relative abundance	5.8
275	Mass 275 relative abundance	20.9
365	Mass 365 relative abundance	2.2
441	Mass 441 relative abundance	72.2
442	Mass 442 relative abundance	61.1
443	Mass 443 relative abundance	19.7

Data File: /chem/msd3.i/3-071996.b/dftpp071996.d
Date : 19-JUL-96 15:45
Instrument : msd3.i
le ID : DFTPP02
Column phase :
Column diameter : 2.00
Volume Injected (uL) : 1.0

Spectrum: Scan 341-343 (7.480 min) Subtraction Scan 337
Base Peak: 198.00
Number of mass peaks: 139

Mass	Abund	Mass	Abund	Mass	Abund	Mass	Abund
38.00	768	98.00	5164	160.00	581	221.00	2295
39.00	4908	99.00	3921	161.00	814	222.00	542
40.00	386	101.00	1854	165.00	1420	223.00	1311
50.00	15041	103.00	514	166.00	754	224.00	10763
51.00	53570	104.00	1606	167.00	4263	225.00	2272
52.00	2576	105.00	1274	168.00	1657	227.00	4645
55.00	5	106.00	272	172.00	239	228.00	276
56.00	2309	107.00	14671	173.00	262	229.00	369
57.00	3643	108.00	2150	174.00	822	242.00	263
61.00	682	110.00	28829	175.00	1714	243.00	280
62.00	747	111.00	4350	176.00	256	244.00	8325
63.00	2151	116.00	784	177.00	601	245.00	1135
65.00	1169	117.00	10946	179.00	3195	246.00	1446
69.00	63570	118.00	651	180.00	2269	255.00	41653
73.00	585	122.00	882	181.00	958	256.00	6282
74.00	5496	123.00	1799	185.00	1705	257.00	272
75.00	8134	124.00	636	186.00	11220	258.00	2151
76.00	2431	125.00	557	187.00	2925	265.00	670
77.00	48626	127.00	44197	189.00	680	273.00	1427
78.00	3512	128.00	3598	191.00	254	274.00	3427
79.00	4483	129.00	21780	192.00	713	275.00	19689
80.00	3269	130.00	1884	193.00	997	276.00	2621
81.00	3887	134.00	353	196.00	1661	277.00	1463
82.00	1359	135.00	1654	198.00	94088	296.00	4717
83.00	587	136.00	527	199.00	5470	323.00	1612
85.00	1171	137.00	719	203.00	680	334.00	993
86.00	1015	141.00	2904	204.00	2740	365.00	2073
87.00	504	142.00	726	205.00	4688	372.00	445
91.00	1452	143.00	243	206.00	20228	423.00	2821
92.00	1149	147.00	1371	207.00	2651	424.00	264
93.00	7582	148.00	2964	208.00	320	441.00	8178
94.00	511	149.00	533	211.00	333	442.00	57530
95.00	27	153.00	745	216.00	306	443.00	11328
96.00	265	155.00	1481	217.00	5534	444.00	680
97.00	15	156.00	1884	218.00	350		



Mass	Ion abundance criteria	%relative abundance
51	30.0 - 60.0% of mass 198	53.1
68	Less than 2.0% of mass 69	0.0
69	Mass 69 relative abundance is	65.9
70	Less than 2.0% of mass 69	0.0
127	40.0 to 60.0% of mass 198	45.5
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.0
275	10.0 - 30.0% of mass 198	21.3
365	Greater than 1% of mass 198	2.4
441	Present, but less than mass 443	69.2
442	Greater than 40.0% of mass 198	60.9
443	17.0 - 23.0% of mass 442	20.1

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i
Lab File ID: bna0101001.d
Analysis Type: WATER
Lab Sample ID:

Injection Date: 19-JUL-1996 16:15
Init. Calibration Date(s): 03/10/93 06/14/96
Init. Calibration Times: 11:35 12:12
Method File: /chem/msd3.i/3-071996.b/MA-BNA_2.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D
2-Fluorophenol	1.161	1.288	0.050	11.0	30.0
Phenol-d5	1.709	1.921	0.050	12.4	30.0
Aniline	1.779	1.803	0.050	1.3	30.0
Phenol **	1.767	2.120	0.050	20.0	30.0
Bis(2-chloroethyl) ether	1.686	1.811	0.050	7.4	30.0
2-Chlorophenol	1.245	1.392	0.050	11.8	30.0
1,3-Dichlorobenzene	1.592	1.639	0.050	3.0	30.0
1,4-Dichlorobenzene **	1.622	1.651	0.050	1.7	30.0
1,2-Dichlorobenzene	1.552	1.542	0.050	0.6	30.0
Benzyl alcohol	1.503	1.420	0.050	5.5	30.0
2-Methylphenol	1.169	1.145	0.050	2.0	30.0
Bis(2-chloroisopropyl) ether	1.987	2.527	0.050	27.2	30.0
4-Methylphenol	1.199	1.292	0.050	7.7	30.0
N-Nitrosodi-n-propylamine *	1.274	1.329	0.050	4.3	30.0
Hexachloroethane	0.698	0.769	0.050	10.2	30.0
Nitrobenzene-d5	0.579	0.652	0.050	12.6	30.0
Nitrobenzene	0.539	0.608	0.050	12.7	30.0
Isophorone	1.086	1.033	0.050	4.9	30.0
2-Nitrophenol **	0.252	0.282	0.050	12.0	30.0
2,4-Dimethylphenol	0.455	0.436	0.050	4.2	30.0
Bis(2-Chloroethoxy)methane	0.581	0.575	0.050	1.2	30.0
2,4-Dichlorophenol **	0.341	0.336	0.050	1.6	30.0
Benzoic acid	0.276	0.221	0.010	20.0	30.0
1,2,4-Trichlorobenzene	0.393	0.368	0.050	6.5	30.0
Naphthalene	1.089	1.010	0.050	7.2	30.0
4-Chloroaniline	0.452	0.359	0.050	20.6	30.0
Hexachlorobutadiene **	0.242	0.235	0.050	3.1	30.0
4-Chloro-3-methylphenol **	0.404	0.352	0.050	12.9	30.0
2-Methylnaphthalene	0.699	0.577	0.050	17.5	30.0
Hexachlorocyclopentadiene *	0.321	0.356	0.050	10.8	30.0
2,4,6-Trichlorophenol **	0.336	0.336	0.050	0.2	30.0
2,4,5-Trichlorophenol	0.390	0.383	0.050	1.8	30.0
2-Fluorobiphenyl	1.361	1.414	0.050	4.0	30.0
2-Chloronaphthalene	1.179	1.264	0.050	7.2	30.0
2-Nitroaniline	0.459	0.567	0.050	23.4	30.0
Dimethyl phthalate	1.488	1.489	0.050	0.0	30.0
2,6-Dinitrotoluene	0.337	0.351	0.050	4.4	30.0
Acenaphthylene	1.685	1.679	0.050	0.3	30.0
3-Nitroaniline	0.306	0.283	0.050	7.4	30.0
Acenaphthene **	1.177	1.082	0.050	8.1	30.0
2,4-Dinitrophenol *	0.147	0.160	0.050	8.3	30.0
4-Nitrophenol *	0.321	0.254	0.050	20.8	30.0
2,4-Dinitrotoluene	0.438	0.418	0.050	4.6	30.0
Dibenzofuran	1.549	1.389	0.050	10.3	30.0
Diethyl phthalate	1.558	1.310	0.050	16.0	30.0

EcoSys, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i
Lab File ID: bna0101001.d
Analysis Type: WATER
Lab Sample ID:

Injection Date: 19-JUL-1996 16:15
Init. Calibration Date(s): 03/10/93 06/14/96
Init. Calibration Times: 11:35 12:12
Method File: /chem/msd3.i/3-071996.b/MA-BNA_2.m

COMPOUND	RRF	RF80	MIN RRF	%D	MAX %D	
4-Chlorophenyl phenyl ether	0.601	0.512	0.050	14.7	30.0	
Fluorene	1.255	1.047	0.050	16.6	30.0	
4-Nitroaniline	0.185	0.199	0.050	7.6	30.0	
4,6-Dinitro-2-methylphenol	0.170	0.214	0.050	25.4	30.0	
N-Nitrosodiphenylamine **	0.304	0.487	0.050	60.3	30.0	<-
1,2-Diphenylhydrazine	2.440	3.070	0.050	25.8	30.0	
2,4,6-Tribromophenol	0.250	0.206	0.050	17.4	30.0	
4-Bromophenyl phenyl ether	0.270	0.323	0.050	19.4	30.0	
Hexachlorobenzene	0.335	0.351	0.050	4.6	30.0	
Pentachlorophenol **	0.181	0.142	0.050	21.5	30.0	
Phenanthrene	1.140	1.152	0.050	1.1	30.0	
Anthracene	1.089	1.120	0.050	2.9	30.0	
Carbazole	0.286	0.802	0.050	180.2	30.0	<-
Di-n-butyl phthalate	1.836	1.670	0.050	9.0	30.0	
Fluoranthene **	1.219	0.977	0.050	19.8	30.0	
Pyrene	1.468	1.664	0.050	13.3	30.0	
Terphenyl-d14	0.977	1.107	0.050	13.4	30.0	
Butyl benzyl phthalate	0.906	1.024	0.050	13.0	30.0	
Dioctyl adipate	0.645	0.717	0.050	11.0	30.0	
3,3'-Dichlorobenzidine	0.162	0.219	0.050	35.3	30.0	<-
Bis(2-ethylhexyl) phthalate	1.256	1.305	0.050	3.9	30.0	
Benz(a)anthracene	1.217	1.210	0.050	0.6	30.0	
Chrysene	1.046	1.089	0.050	4.2	30.0	
Di-n-octyl phthalate **	2.664	2.982	0.050	11.9	30.0	
Benzo(b)fluoranthene	1.515	1.473	0.050	2.8	30.0	
Benzo(k)fluoranthene	1.301	1.516	0.050	16.5	30.0	
Benzo(a)pyrene **	1.267	1.326	0.050	4.6	30.0	
Indeno(1,2,3-cd)pyrene	1.198	1.469	0.050	22.6	30.0	
Dibenz(a,h)anthracene	1.084	1.258	0.050	16.1	30.0	
Benzo(g,h,i)perylene	1.161	1.224	0.050	5.4	30.0	

SemiVolatile Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107899	Extraction Method No.: SW3550
Batch No(s): 0717960002	Date Extracted: 7/16/96
Lab File ID: BNA1201012	Date Analyzed: 7/18/96
Lab Sample ID: AB35675	Time Analyzed: 9:28 PM
Cleanup Method: NA	Level: Low
Instrument ID: MSD-2	Matrix: Soil

This method blank applies to the following samples, MS and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	#118 T-1-S1	AB35667	BNA0501005	7/22/96
2	#22 T-1-S1	AB35668	BNA1601016	7/19/96
3	#22 T-1-S2	AB35669	BNA0901009	7/20/96
4	#22 T-1-S3	AB35670	BNA0401004	7/22/96
5	#24 T-1-S1	AB35671	BNA0301003	7/22/96
6	#24 T-1-S2	AB35672	BNA0501005	7/19/96
7	#24 T-S-S3	AB35673	BNA1701017	7/19/96
8	NA (MS)	AB35951	BNA1301013	7/18/96
9	NA (MSD)	AB35952	BNA1401014	7/18/96
10	NA (LCS)	AB35953	BNA1501015	7/19/96
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

NA = Not Applicable
MB = Method Blank; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate
MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments: _____

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QA/QC Officer

Soil Volatile MS/MSD Recovery

Lab Name: EcoSys, Inc.	Client: ACE SAD
Ledger No(s): 107899	Matrix Spike/Spike dup AB35673 REF
Batch No(s): 0717960002	AB35951 MS
Lab File ID: BNA1301013/BNA1401014	AB35952 MSD

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Phenol	3330	ND	2300	69		26-90
2-Chlorophenol	3330	ND	2270	68		25-102
1,4-Dichlorobezene	1670	ND	1200	72		28-104
N-Nitroso-di-n-propylamine	1670	ND	1260	75		41-126
1,2,4-Trichlorobenzene	1670	ND	1160	69		38-107
4-Chloro-3-methylphenol	3330	ND	2230	67		26-103
Acenapthene	1670	ND	1320	79		31-137
4-Nitrophenol	3330	ND	1940	58		11-114
2,4-Dinitrotoluene	1670	ND	1220	73		28-89
Pentachlorophenol	3330	ND	2480	74		17-109
Pyrene	1670	ND	1470	88		35-142

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Phenol	3330	2280	68		1		35	26-90
2-Chlorophenol	3330	2160	65		5		50	25-102
1,4-Dichlorobezene	1670	1190	71		1		27	28-104
N-Nitroso-di-n-propylamine	1670	1200	72		5		38	41-126
1,2,4-Trichlorobenzene	1670	1160	69		0		23	38-107
4-Chloro-3-methylphenol	3330	2120	64		5		33	26-103
Acenapthene	1670	1220	73		8		19	31-137
4-Nitrophenol	3330	2050	62		6		50	11-114
2,4-Dinitrotoluene	1670	1190	71		2		47	28-89
Pentachlorophenol	3330	2450	74		1		47	17-109
Pyrene	1670	1390	83		6		36	35-142

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

ND = Not Detected

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

Comments: _____

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_____ 16/96

QA/QC Officer

External Standard Report

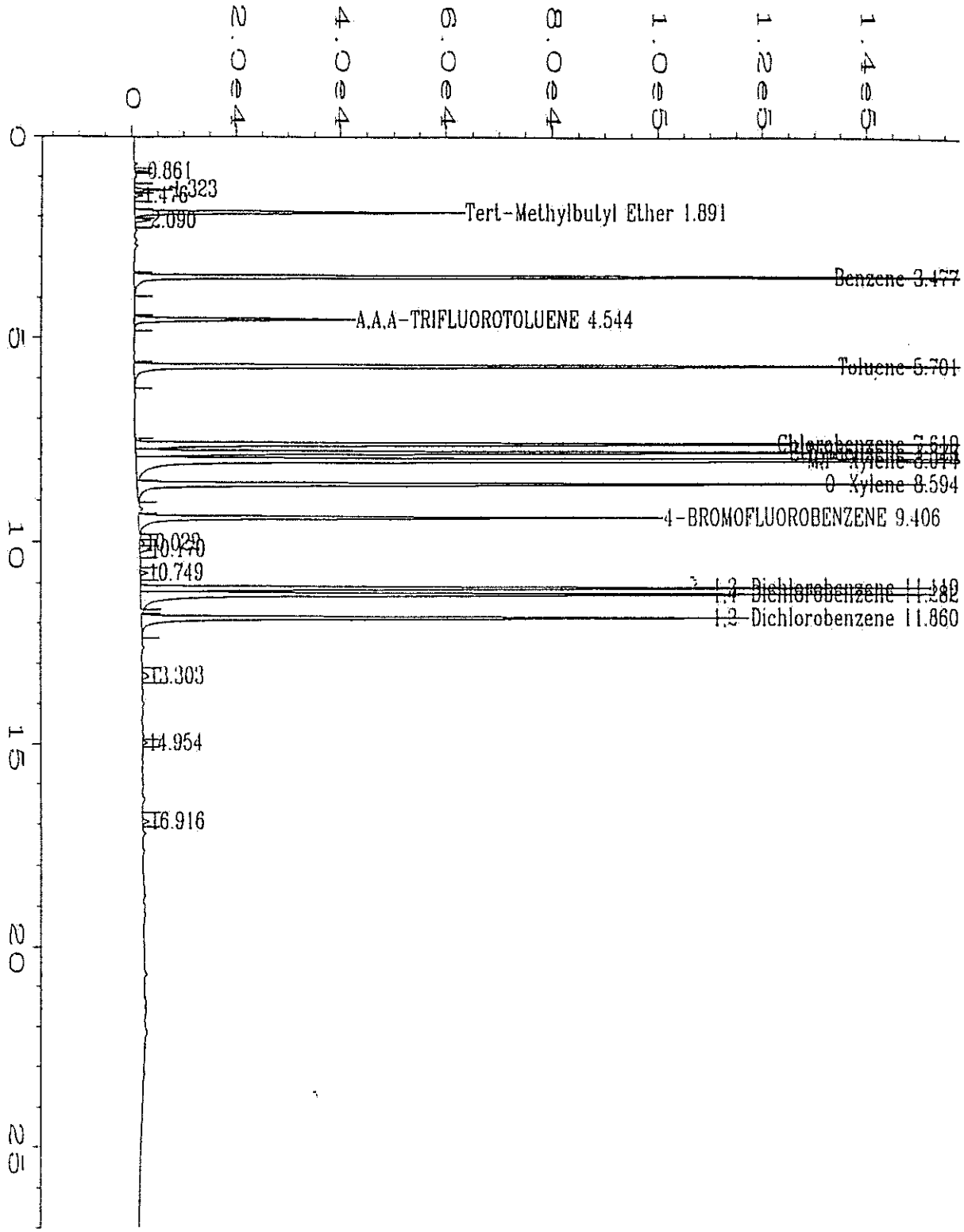
Data File Name : C:\HPCHEM\1\DATA\b071596\30715F01.D
Operator : Doug Anderson
Instrument : GC3
Sample Name : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on : 15 Jul 96 04:20 PM
Report Created on: 15 Jul 96 04:48 PM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier : 1
Sample Info : 16ppb surr

Page Number : 1
Vial Number : 1
Injection Number : 1
Sequence Line : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\b071596\30715F01.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.891	235384	BV	0.059	1	20.286	Tert-Methylbutyl Ether
3.477	741851	BB	0.056	1	18.936	Benzene
4.544	174949	BV	0.065	1	15.838	A,A,A-TRIFLUOROTOLUENE
5.701	708907	PB	0.060	1	18.872	Toluene
7.619	695472	BV	0.059	1	18.426	Chlorobenzene
7.826	633434	VV	0.063	1	18.838	Ethylbenzene
8.014	1485251	VV	0.065	1	38.420	M,P-Xylene
8.594	622836	VV	0.064	1	18.892	O-Xylene
9.406	403957	VV	0.062	1	15.861	4-BROMOFLUOROBENZENE
11.119	610804	BV	0.063	1	18.028	1,3-Dichlorobenzene
11.282	668477	VV	0.067	1	19.555	1,4-Dichlorobenzene
11.860	481886	VB	0.065	1	20.222	1,2-Dichlorobenzene

071596B5



Data File Name : C:\HPCHEM\1\DATA\b071596\30715F01.D
Operator : Doug Anderson
Instrument : GC3
Sample Name : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on : 15 Jul 96 04:20 PM
Report Created on: 15 Jul 96 04:48 PM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier : 1
Sample Info : 16ppb surr

Page Number : 1
Vial Number : 1
Injection Number : 1
Sequence Line : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount : 0
ISTD Amount :

Aromatic Volatile Organics Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107899	
Batch No: 071596BS	Date Analyzed: 7/15/96
Lab File ID: 30715F02	Time Analyzed: 16:53
Lab Sample ID: AB35675	Level: Low
Instrument ID: GC3	Matrix: Soil

This method blank applies to the following samples, MS and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	#118 T-1-S1	AB35667	30715F06	7/16/96
2	#22 T-1-S1	AB35668	30715F07	7/16/96
3	#22 T-1-S2	AB35669	30715F08	7/16/96
4	#22 T-1-S3	AB35670	30715F09	7/16/96
5	NA (LCS)	AB36146	30715F03	7/15/96
6	#118 T-1-S1 (MS)	AB36147	30715F04	7/15/96
7	#118 T-1-S1 (MSD)	AB36148	30715F05	7/15/96
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable

LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate

MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments: _____

16 Aug 96

QA/QC Officer

Aromatic Volatile Organics MS/MSD Recovery

Lab Name: EcoSys, Inc.
Ledger No: 107899
Batch No: 071596BS
Lab File ID: 30715F04/30715F05

Client: ACE-SAD
Matrix Spike/Lab Sample No: AB35667 REF
AB36147 MS
AB36148 MSD
Matrix: Soil
Level (Low/Medium): Low

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	18	88		40-160
Toluene	20	ND	16	81		40-160
Chlorobenzene	20	ND	14	72		40-160
Ethylbenzene	20	ND	14	70		40-160
m,p-Xylene	40	ND	27	68		40-160
o-Xylene	20	ND	14	70		40-160
1,3-Dichlorobenzene	20	ND	9	46		40-160
1,4-Dichlorobenzene	20	ND	9	47		40-160
1,2-Dichlorobenzene	20	ND	10	52		40-160

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Benzene	20	14	68		26		30	40-160
Toluene	20	12	62		27		30	40-160
Chlorobenzene	20	11	55		27		30	40-160
Ethylbenzene	20	11	54		25		30	40-160
m,p-Xylene	40	20	51		30		30	40-160
o-Xylene	20	11	53		27		30	40-160
1,3-Dichlorobenzene	20	7	37	*	22		30	40-160
1,4-Dichlorobenzene	20	8	41		13		30	40-160
1,2-Dichlorobenzene	20	9	45		14		30	40-160

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
ND = Not Detected

RPD: 0 out of 9 outside limits

Spike Recovery: 1 out of 18 outside limits

Comments: _____

QA/QC Officer

Aromatic Volatile Organics LCS Recoveries

Lab Name: EcoSys, Inc.
Ledger No: 107899
Batch No: 071596BS
Lab File ID: 30715F03

Client: ACE-SAD
Laboratory Control Sample No: AB36146
Level (Low/Med): Low
Matrix: Soil

Compound	Spike Added (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	19	95		61-145
Toluene	20	19	95		61-145
Chlorobenzene	20	19	97		61-145
Ethylbenzene	20	19	95		61-145
m,p-Xylene	40	39	96		61-145
o-Xylene	20	19	96		61-145
1,3-Dichlorobenzene	20	20	98		61-145
1,4-Dichlorobenzene	20	20	100		61-145
1,2-Dichlorobenzene	20	22	109		61-145

* Values outside of QC limits
ND = Not Detected

Spike Recovery: 0 out of 9 outside limits

Comments: _____

16 Aug 96

QA/QC Officer

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Aromatic Volatile Organics Surrogate Recovery Summary

Lab Name: EcoSys, Inc. Client: ACE-SAD
Ledger No(s): 107899
Batch No.: 071596BS Matrix: SOIL
GC Column : DB-VXR Level: LOW

Client Sample No.	Lab Sample ID	A,A,A-Trifluorotoluene %Rec	#	4-Bromofluorobenzene %Rec	#	Total Out
#118 T-1-S1	AB35667	50		46		0
#22 T-1-S1	AB35668	42		26	*	1
#22 T-1-S2	AB35669	81		80		0
#22 T-1-S3	AB35670	50		71		0
NA (MB)	AB35675	101		102		0
NA (LCS)	AB36146	96		101		0
#118 T-1-S1 (MS)	AB36147	81		68		0
#118 T-1-S1 (MSD)	AB36148	88		57		0

Surrogate Recovery Limits: 40-160%

Column to be used to flag recovery values
* Values outside of required QC limits
ND = Not Detected
DO = Diluted Out

Comments: _____

16 Aug 96

QA/QC Officer

071

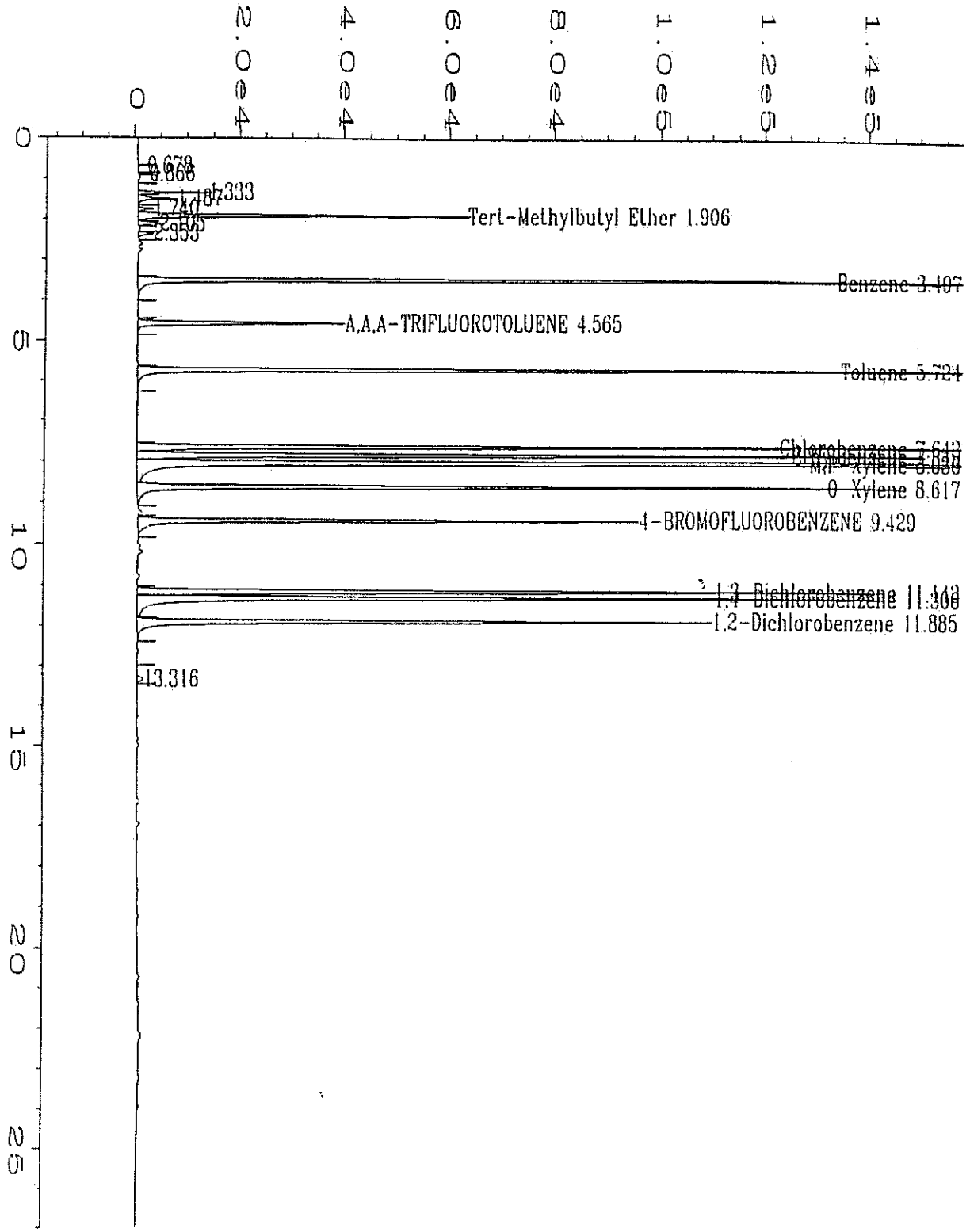
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\b071696\30716F01.D
Operator : Doug Anderson
Instrument : GC3
Sample Name : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on : 16 Jul 96 04:28 PM
Report Created on: 16 Jul 96 04:56 PM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier : 1
Sample Info : 16ppb surr

Page Number : 1
Vial Number : 1
Injection Number : 1
Sequence Line : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\b071696\30716F01.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.906	237285	VV	0.059	1	20.472	Tert-Methylbutyl Ether
3.497	703735	BB	0.056	1	17.895	Benzene
4.565	164104	BB	0.065	1	14.857	A,A,A-TRIFLUOROTOLUENE
5.724	675256	VB	0.060	1	17.916	Toluene
7.642	665822	BV	0.059	1	17.597	Chlorobenzene
7.849	606006	VV	0.063	1	17.975	Ethylbenzene
8.036	1409071	VV	0.064	1	36.319	M,P-Xylene
8.617	595801	VV	0.064	1	18.026	O-Xylene
9.429	384836	PV	0.062	1	15.111	4-BROMOFLUOROBENZENE
11.143	582424	BV	0.063	1	17.157	1,3-Dichlorobenzene
11.306	644061	VV	0.068	1	18.805	1,4-Dichlorobenzene
11.885	471296	VV	0.066	1	19.755	1,2-Dichlorobenzene



Data File Name	: C:\HPCHEM\1\DATA\b071696\30716F01.D		
Operator	: Doug Anderson	Page Number	: 1
Instrument	: GC3	Vial Number	: 1
Sample Name	: 20ppb 8020 ccv	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 16 Jul 96 04:28 PM	Instrument Method	: 3B061396.MTH
Report Created on	: 16 Jul 96 04:56 PM	Analysis Method	: 3B061396.MTH
Last Recalib on	: 14 JUN 96 10:38 AM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:
Sample Info	: 16ppb surr		

Aromatic Volatile Organics Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107899	
Batch No: 071696BS	Date Analyzed: 7/16/96
Lab File ID: 30716F02	Time Analyzed: 17:01
Lab Sample ID: AB36149	Level: Low
Instrument ID: GC3	Matrix: Soil

This method blank applies to the following samples, MS and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	#24 T-1-S1	AB35671	30716F06	7/16/96
2	#24 T-1-S2	AB35672	30716F07	7/16/96
3	#24 T-1-S3	AB35673	30716F08	7/16/96
4	NA (LCS)	AB36150	30716F03	7/16/96
5	#24 T-1-S1 (MS)	AB36151	30716F04	7/16/96
6	#24 T-1-S1 (MSD)	AB36152	30716F05	7/16/96
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable

LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate

MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments: _____

_____

_____

_____ 16 Aug 96

QA/QC Officer

074

Aromatic Volatile Organics MS/MSD Recovery

Lab Name: EcoSys, Inc.
Ledger No: 107899
Batch No: 071696BS
Lab File ID: 30716F04/30716F05

Client: ACE-SAD
Matrix Spike/Lab Sample No: AB35671 REF
AB36151 MS
AB36152 MSD
Matrix: Soil
Level (Low/Medium): Low

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	17	85		40-160
Toluene	20	ND	17	84		40-160
Chlorobenzene	20	ND	17	83		40-160
Ethylbenzene	20	ND	16	81		40-160
m,p-Xylene	40	ND	31	77		40-160
o-Xylene	20	ND	16	80		40-160
1,3-Dichlorobenzene	20	ND	15	76		40-160
1,4-Dichlorobenzene	20	ND	15	77		40-160
1,2-Dichlorobenzene	20	ND	16	82		40-160

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Benzene	20	15	73		15		30	40-160
Toluene	20	14	70		18		30	40-160
Chlorobenzene	20	14	69		18		30	40-160
Ethylbenzene	20	12	58		33	*	30	40-160
m,p-Xylene	40	16	39	*	65	*	30	40-160
o-Xylene	20	10	50		46	*	30	40-160
1,3-Dichlorobenzene	20	12	60		23		30	40-160
1,4-Dichlorobenzene	20	12	60		24		30	40-160
1,2-Dichlorobenzene	20	12	61		29		30	40-160

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
ND = Not Detected

RPD: 3 out of 9 outside limits

Spike Recovery: 1 out of 18 outside limits

Comments: _____

QA/QC Officer

Aromatic Volatile Organics LCS Recoveries

Lab Name: EcoSys, Inc.
Ledger No: 107899
Batch No: 071696BS
Lab File ID: 30716F03

Client: ACE-SAD
Laboratory Control Sample No: AB36150
Level (Low/Med): Low
Matrix: Soil

Compound	Spike Added (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	17	85		61-145
Toluene	20	17	85		61-145
Chlorobenzene	20	17	87		61-145
Ethylbenzene	20	17	86		61-145
m,p-Xylene	40	34	86		61-145
o-Xylene	20	17	86		61-145
1,3-Dichlorobenzene	20	17	87		61-145
1,4-Dichlorobenzene	20	18	89		61-145
1,2-Dichlorobenzene	20	20	98		61-145

* Values outside of QC limits
ND = Not Detected

Spike Recovery: 0 out of 9 outside limits

Comments: _____

QA/QC Officer

076

Aromatic Volatile Organics Surrogate Recovery Summary

Lab Name: EcoSys, Inc. Client: ACE-SAD
Ledger No(s): 107899
Batch No.: 071696BS Matrix: SOIL
GC Column : DB-VXR Level: LOW

Client Sample No.	Lab Sample ID	A,A,A-Trifluorotoluene %Rec	#	4-Bromofluorobenzene %Rec	#	Total Out
#24 T-1-S1	AB35671	73		79		0
#24 T-1-S2	AB35672	79		75		0
#24 T-1-S3	AB35673	76		71		0
NA (MB)	AB36149 MB	95		100		0
NA (LCS)	AB36150 LCS	93		100		0
#24 T-1-S1 (MS)	AB36151 MS	85		86		0
#24 T-1-S1 (MSD)	AB36152 MSD	74		76		0

Surrogate Recovery Limits: 40-160%

Column to be used to flag recovery values
* Values outside of required QC limits
ND = Not Detected
DO = Diluted Out

Comments: _____

QA/QC Officer

Btxssur2

Printed: 8/16/96/4:18 PM

External Standard Report

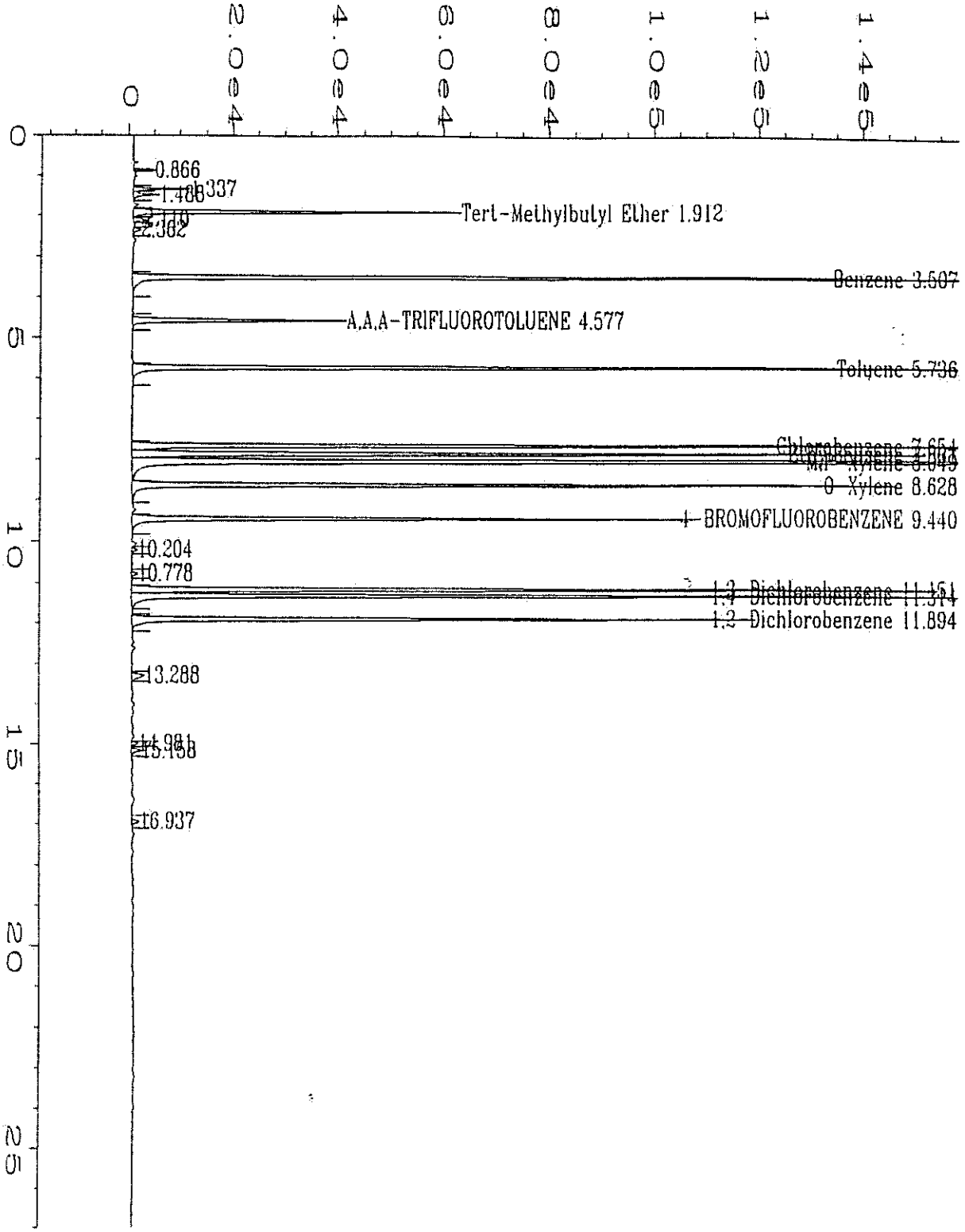
water

Data File Name : C:\HPCHEM\1\DATA\b071696\30716F09.D
Operator : Doug Anderson
Instrument : GC3
Sample Name : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on : 16 Jul 96 08:53 PM
Report Created on: 16 Jul 96 09:21 PM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier : 1
Sample Info : 16ppb surr

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\b071696\30716F09.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
1.912	236094	VV	0.059	1	20.355	Tert-Methylbutyl Ether
3.507	695162	BB	0.057	1	17.661	Benzene
4.577	169155	BV	0.065	1	15.314	A,A,A-TRIFLUOROTOLUENE
5.736	663914	VB	0.059	1	17.594	Toluene
7.654	670980	BV	0.058	1	17.742	Chlorobenzene
7.861	596425	VV	0.061	1	17.673	Ethylbenzene
8.049	1375392	VV	0.063	1	35.389	M,P-Xylene
8.628	585850	VV	0.063	1	17.707	O-Xylene
9.440	411219	PB	0.059	1	16.147	4-BROMOFLUOROBENZENE
11.151	595844	BV	0.061	1	17.569	1,3-Dichlorobenzene
11.314	614536	VV	0.060	1	17.899	1,4-Dichlorobenzene
11.894	466910	PV	0.061	1	19.562	1,2-Dichlorobenzene



Data File Name : C:\HPCHEM\1\DATA\b071696\30716F09.D
Operator : Doug Anderson
Instrument : GC3
Sample Name : 20ppb 8020 ccv
Run Time Bar Code:
Acquired on : 16 Jul 96 08:53 PM
Report Created on: 16 Jul 96 09:21 PM
Last Recalib on : 14 JUN 96 10:38 AM
Multiplier : 1
Sample Info : 16ppb surr

Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: 3B061396.MTH
Analysis Method : 3B061396.MTH
Sample Amount : 0
ISTD Amount :

Aromatic Volatile Organics Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107899	
Batch No: 071696BW	Date Analyzed: 7/16/96
Lab File ID: 30716F10	Time Analyzed: 21:26
Lab Sample ID: AB35676	Level: Low
Instrument ID: GC3	Matrix: Water

This method blank applies to the following samples, MS and MSD:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	TRIP BLANK	AB35674	30716F15	7/17/96
2	NA (LCS)	AB36153	30716F11	7/16/96
3	TRIP BLANK (MS)	AB36154	30716F12	7/16/96
4	TRIP BLANK (MSD)	AB36155	30716F14	7/16/96
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

NA = Not Applicable

LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate

MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments: _____

16 Aug 96

QA/QC Officer

PSO

Aromatic Volatile Organics MS/MSD Recovery

Lab Name: EcoSys, Inc.
Ledger No: 107899
Batch No: 071696BW
Lab File ID: 30716F12/30716F14

Client: ACE-SAD
Matrix Spike/Lab Sample No: AB35674 REF
AB36154 MS
AB36155 MSD
Matrix: Water
Level (Low/Med): Low

Compound	Spike Added (ug/Kg)	Sample Conc (ug/Kg)	MS Conc (ug/Kg)	MS % Recovery	#	QC Limits Recovery
Benzene	20	ND	17	86		80-120
Toluene	20	ND	17	86		80-120
Chlorobenzene	20	ND	17	86		80-120
Ethylbenzene	20	ND	17	86		80-120
m,p-Xylene	40	ND	34	86		80-120
o-Xylene	20	ND	17	85		80-120
1,3-Dichlorobenzene	20	ND	17	85		80-120
1,4-Dichlorobenzene	20	ND	17	86		80-120
1,2-Dichlorobenzene	20	ND	19	93		80-120

Compound	Spike Added (ug/Kg)	MSD Conc (ug/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
Benzene	20	20	101		16		30	80-120
Toluene	20	20	101		16		30	80-120
Chlorobenzene	20	20	101		16		30	80-120
Ethylbenzene	20	20	101		16		30	80-120
m,p-Xylene	40	40	100		15		30	80-120
o-Xylene	20	20	99		15		30	80-120
1,3-Dichlorobenzene	20	20	100		17		30	80-120
1,4-Dichlorobenzene	20	20	101		17		30	80-120
1,2-Dichlorobenzene	20	22	110		17		30	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
ND = Not Detected

RPD: 0 out of 9 outside limits

Spike Recovery: 0 out of 18 outside limits

Comments: _____

16 Aug 96
QA/QC Officer

OS1

Aromatic Volatile Organics LCS Recoveries

Lab Name: EcoSys, Inc.
Ledger No: 107899
Batch No: 071696BW
Lab File ID: 30716F11

Client: ACE-SAD
Laboratory Control Sample No: AB36153
Level (Low/Med): Low
Matrix: Water

Compound	Spike Added (ug/Kg)	LCS Conc (ug/Kg)	LCS % Recovery	#	QC Limits Recovery
Benzene	20	17	83		80-120
Toluene	20	17	84		80-120
Chlorobenzene	20	17	84		80-120
Ethylbenzene	20	17	84		80-120
m,p-Xylene	40	34	84		80-120
o-Xylene	20	17	84		80-120
1,3-Dichlorobenzene	20	17	83		80-120
1,4-Dichlorobenzene	20	17	84		80-120
1,2-Dichlorobenzene	20	18	91		80-120

* Values outside of QC limits
ND = Not Detected

Spike Recovery: 0 out of 9 outside limits

Comments: _____

16 Aug 96
QA/QC Officer

082

Aromatic Volatile Organics Surrogate Recovery Summary

Lab Name: EcoSys, Inc. Client: ACE-SAD
Ledger No(s): 107899
Batch No.: 071696BW Matrix: Water
GC Column : DB-VXR Level: Low

Client Sample No.	Lab Sample ID	A,A,A-Trifluorotoluene %Rec	#	4-Bromofluorobenzene %Rec	#	Total Out
TRIP BLANK	AB35674	92		94		0
NA (MB)	AB35676	91		93		0
NA (LCS)	AB36153	93		96		0
TRIP BLANK (MS)	AB36154	93		96		0
TRIP BLANK (MSD)	AB36155	109		110		0

Surrogate Recovery Limits: 80-120%

Column to be used to flag recovery values
* Values outside of required QC limits
ND = Not Detected
DO = Diluted Out

Comments: _____

16 Aug 96
QA/QC Officer

CS3

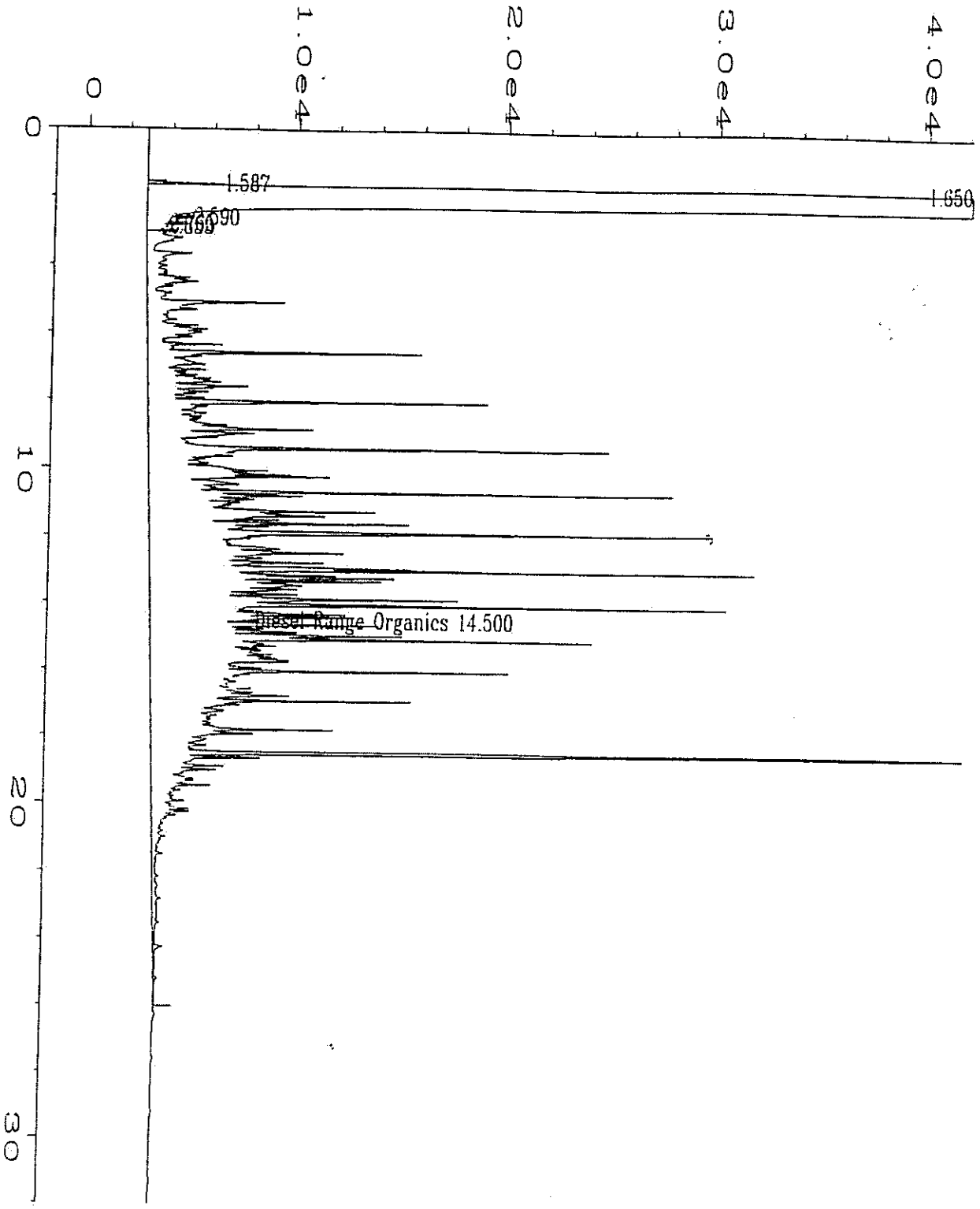
External Standard Report

Data File Name : C:\HPCHEM\1\DATA\DR072496\20724R04.D
Operator : D. ANDERSON
Instrument : GC2
Sample Name : 1000 ppm dro std
Time Bar Code:
Acquired on : 24 Jul 96 05:46 PM
Report Created on: 25 Jul 96 09:11 AM
Last Recalib on : 25 JUL 96 09:05 AM
Multiplier : 1
Sample Info : 100ppm surr

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: RDL72496.MTH
Analysis Method : RDL72496.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\DR072496\20724R04.D

Ret Time	Area	Type	Width	Ref#	ppb	Name
14.500	4266326	BB +	0.000	1	972.722	Diesel Range Organics
1.587	8776	BV	0.034		8776.262	* uncalibrated *
1.650	6.78419E+008	HVAS	0.118		6.8E+008	* uncalibrated *
2.590	4656	BV T	0.057		4655.786	* uncalibrated *
2.765	528	VV T	0.043		528.223	* uncalibrated *
2.853	1267	VV T	0.077		1267.238	* uncalibrated *



Data File Name : C:\HPCHEM\1\DATA\DR072496\20724R04.D
Operator : D. ANDERSON
Instrument : GC2
Sample Name : 1000 ppm dro std
Run Time Bar Code:
Acquired on : 24 Jul 96 05:46 PM
Report Created on: 25 Jul 96 09:11 AM
Last Recalib on : 25 JUL 96 09:05 AM
Multiplier : 1
Sample Info : 100ppm surr

Page Number : 1
Vial Number : 4
Injection Number : 1
Sequence Line : 1
Instrument Method: RDL72496.MTH
Analysis Method : RDL72496.MTH
Sample Amount : 0
ISTD Amount :

Diesel Range Organics Method Blank Summary

Lab Name: EcoSys, Inc.	Client: ACE SAD
Ledger No(s): 107899	Extraction Method No.: SW3550
Batch No: 0718960002	Date Extracted: 7/17/96
Lab File ID: 20724R08	Date Analyzed: 7/24/96
Lab Sample ID: AB35675	Time Analyzed: 8:17 PM
Instrument ID: GC2	Level: Low
	Matrix: Soil

This method blank applies to the following samples, LCS, and LCSD.

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	#118 T1-S1	AB35667	20724R13	7/24/96
2	NA (LCS)	AB36038	20724R09	7/24/96
3	#118 T1-S1 (MS)	AB36036	20724R14	7/25/96
4	#118 T1-S1 (MSD)	AB36037	20724R15	7/25/96
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

NA = Not Applicable

LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate

MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments: _____

16 Aug 96

QA/QC Officer

086

Diesel Range Organics MS/MSD Recovery

Lab Name:	EcoSys, Inc.	Client:	ACE-SAD
Ledger No:	107899	Matrix Spike/Matrix dup No.:	AB35667 REF
Batch No:	0718960002		AB36036 MS
Lab File ID:	20724R14/20724R15		AB36037 MSD
		Matrix:	Soil
		Level Med/Low	Low

Compound	Spike Added (mg/Kg)	Sample Conc (mg/Kg)	MS Conc (mg/Kg)	MS % Recovery	#	QC Limits Recovery
DIESEL RANGE ORG	50	ND	56	112		50-150

Compound	Spike Added (mg/Kg)	MSD Conc (mg/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
DIESEL RANGE ORG	25	19	76		2.4		50	50-150

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
ND = Not Detected

RPD:	0	out of	1	outside limits
Spike Recovery:	0	out of	2	outside limits

Comments: _____

16 Aug 96

QA/QC Officer

Diesel Range Organics LCS Recovery Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No: 107899	Lab Control Sample No: AB36038
Batch No: 0718960002	Matrix: Soil
Lab File ID: 20724R09	Level (Low/Med): Low

Compound	Spike Added mg/Kg	Sample Conc mg/Kg	LCS Conc mg/Kg	LCS % Recovery	#	QC Limits Recovery
DIESEL RANGE ORG.	67	NR	65	97		60-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

Comments: _____

QA/QC Officer

C88

Diesel Range Organics Surrogate Recovery Summary

Lab Name: EcoSys, Inc.
Ledger No(s): 107899
Batch No.: 0718960002
GC Column: DB-5

Client: ACE-SAD

Matrix: Soil
Level: Low

Client Sample No.	Lab Sample ID	O-TERPHENYL %Rec	#		#	Total Out
#118 T-1-S1	AB35667	86				0
NA (MB)	AB35675	97				0
#118 T-1-S1 (MS)	AB36036	68				0
#118 T-1-S1 (MSD)	AB36037	61				0
NA (LCS)	AB36038	100				0

Surrogate Recovery Limits: 40-160%

Column to be used to flag recovery values
* Values outside of required QC limits
ND = Not Detected
DO = Diluted Out

Comments: _____

_____

_____

16 Aug 96

QA/QC Officer

CSG

TRPH Method Blank Summary

Lab Name:	EcoSys, Inc.	Client:	ACE SAD
Ledger No(s):	107899	Extraction Method No.:	
Batch No:	071796B	Date Extracted:	
Lab File ID:	NA	Date Analyzed:	7/17/96
Lab Sample ID:	AB35675	Time Analyzed:	
Instrument ID:	FTIR	Matrix:	Soil

This method blank applies to the following samples, LCS, and LCSD.

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed
1	#22 T1-S1	AB35668	NA	7/17/96
2	NA (LCS)	NA	NA	7/17/96
3	#22 T1-S1 (MS)	NA	NA	7/17/96
4	#22 T1-S1 (MSD)	NA	NA	7/17/96
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

NA = Not Applicable

LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate

MS = Matrix Spike; MSD = Matrix Spike Duplicate

Comments: _____

C. McCulloch 16 Aug 96

QA/QC Officer

090

TRPH MS/MSD Recovery Summary

Lab Name: EcoSys, Inc.
Ledger No: 107899
Batch No: 071796B
Lab File ID: NA

Client: ACE-SAD
Matrix Spike/Lab Sample No: AB35672 REF

Matrix: Soil

Compound	Spike Added (mg/Kg)	Sample Conc (mg/Kg)	MS Conc (mg/Kg)	MS % Recovery	#	QC Limits Recovery
TRPH (9071A)	155	ND	144	93		80-120

Compound	Spike Added (mg/Kg)	MSD Conc (mg/Kg)	MSD % Recovery	#	% RPD	#	QC Limits RPD	QC Limits Recovery
TRPH (9071A)	155	138	89		4		20	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
ND = Not Detected

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

Comments: _____

QA/QC Officer

191

TRPH LCS Recovery Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No: 107899	Lab Control Sample No: NA
Batch No: 071796B	Matrix: Soil
Lab File ID: NA	Level (Low/Med): Low

Compound	Spike Added mg/Kg	Sample Conc mg/Kg	LCS Conc mg/Kg	LCS % Recovery	#	QC Limits Recovery
TRPH (9071A)	155	NR	148	96		80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

Comments: _____

QA/QC Officer

092

TRPH Duplicate Summary

Lab Name: EcoSys, Inc.	Client: ACE-SAD
Ledger No(s): 107899	Sample No: AB35671 REF
Batch No: 071796B	Matrix: Soil
Lab File ID: NA	Level (Low/Med): Low

Sample AB35671

	Sample Result (mg/Kg)	Dup. Sample Result (mg/Kg)	% RPD
TRPH (9071A)	ND	ND	NC

RPD Limit 20%
NR = Not Required
ND = Not Detected
NC = Not Calculable due to value(s) less than CRDL

Comments: _____

_____

_____

QA/QC Officer

TAB 9

MANIFESTS

32 22

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. 0001 A

1. Page 1 of 1

2. Generator's Name and Mailing Address
Ft. Stewart
Hinesville, GA 31313

3. Generator's Phone (912) 234-6579

4. Transporter 1 Company Name
Hendricks Hauling

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
TERRA-SERV MANAGEMENT, INC.
c/o Reynolds Constr Co.
Rt. 84
Ludowici, GA 31316

A. Transporter's Phone
B. Transporter's Phone 912-427-6758
C. Facility's Phone 912-756-3655

7. Waste Shipping Name and Description	8. Containers No.	8. Containers Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	1	TT	18.00	CY
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

11. Special Handling Instructions and Additional Information

8101

Tank # 22

12. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Tom C. Fry — Signature: Tom C. Fry — Month 08 Day 06 Year 96

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry A Sloan — Signature: Jerry A Sloan — Month 08 Day 12 Year 96

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles Pruitt — Signature: Charles Pruitt — Month . Day . Year .

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Month 08 Day 12 Year 96

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

22

REYNOLDS CONSTRUCTION COMPANY

Highway 84 • P. O. Box 749
Ludowici, Georgia 31316
Office (912) 368-7488 • Plant (912) 876-8085

Date _____ 19__ Load No. 33

Customer Triple "R" Mgmt Description Pcs

Project Number RRR-104 Location FJ Stewart County Liberty

26740 lb Net.
23400 lb Tare
50140 lb+ Gross
02:12 PM AU 12 96

Signature of Weigher

TONS: 13,37 TOTAL TONS: 465,87 ~~[illegible]~~

Hendrix TRUCKER 32 TRUCK NO.

DRIVER TICKET NO. 58847

VIP-1518-HV

22

Please print or type.
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

Manifest Document No. 0002

1. Page 1 of 1

2. Generator's Name and Mailing Address
Ft. Stewart
Hinesville, GA 31313

3. Generator's Phone (912) 234-6579

4. Transporter 1 Company Name
Hendricks Hauling

5. Transporter 2 Company Name

6. Designated Facility Name and Site Address
Triple R Management, Inc.
c/o Reynolds Constr Co.
Rt. 84
Ludowici, GA 31316

A. Transporter's Phone
B. Transporter's Phone 912-427-6758
C. Facility's Phone 912-756-3655

7. Waste Shipping Name and Description	8. Containers No.	Type	9. Total Quantity	10. Unit Wt/Vol
a. Petroleum Contaminated Soil	1	TT	18.00	CY
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

11. Special Handling Instructions and Additional Information

8101

Tank # 22

12. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Tom C. Fry | Signature: Tom C. Fry | Month 08 Day 10 Year 96

13. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

14. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Shawn Pepe | Signature: Shawn Pepe | Month 8 Day 12 Year 96

15. Discrepancy Indication Space

16. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: CHARLES PRUITT | Signature: Charles Pruitt | Month 08 Day 12 Year 96

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL – RETURN TO GENERATOR

REYNOLDS CONSTRUCTION COMPANY

Highway 84 • P. O. Box 749
Ludowici, Georgia 31316
Office (912) 368-7488 • Plant (912) 876-8085

Date _____ 19__ Load No. 6

Customer: Triple "R" Mgmt. Description: PCS

Project Number: RRR104

Location: Ft. Stewart County: Liberty

42,520 Net

21400 lb Net
00 lb Tare
21400 lb Gross
11:28 AM AU 12 96

63920 lb Net
00 lb Tare
63920 lb Gross
11:22 AM AU 12 96

Signature of Weigher

TONS: 21.26 TOTAL TONS: 126.66

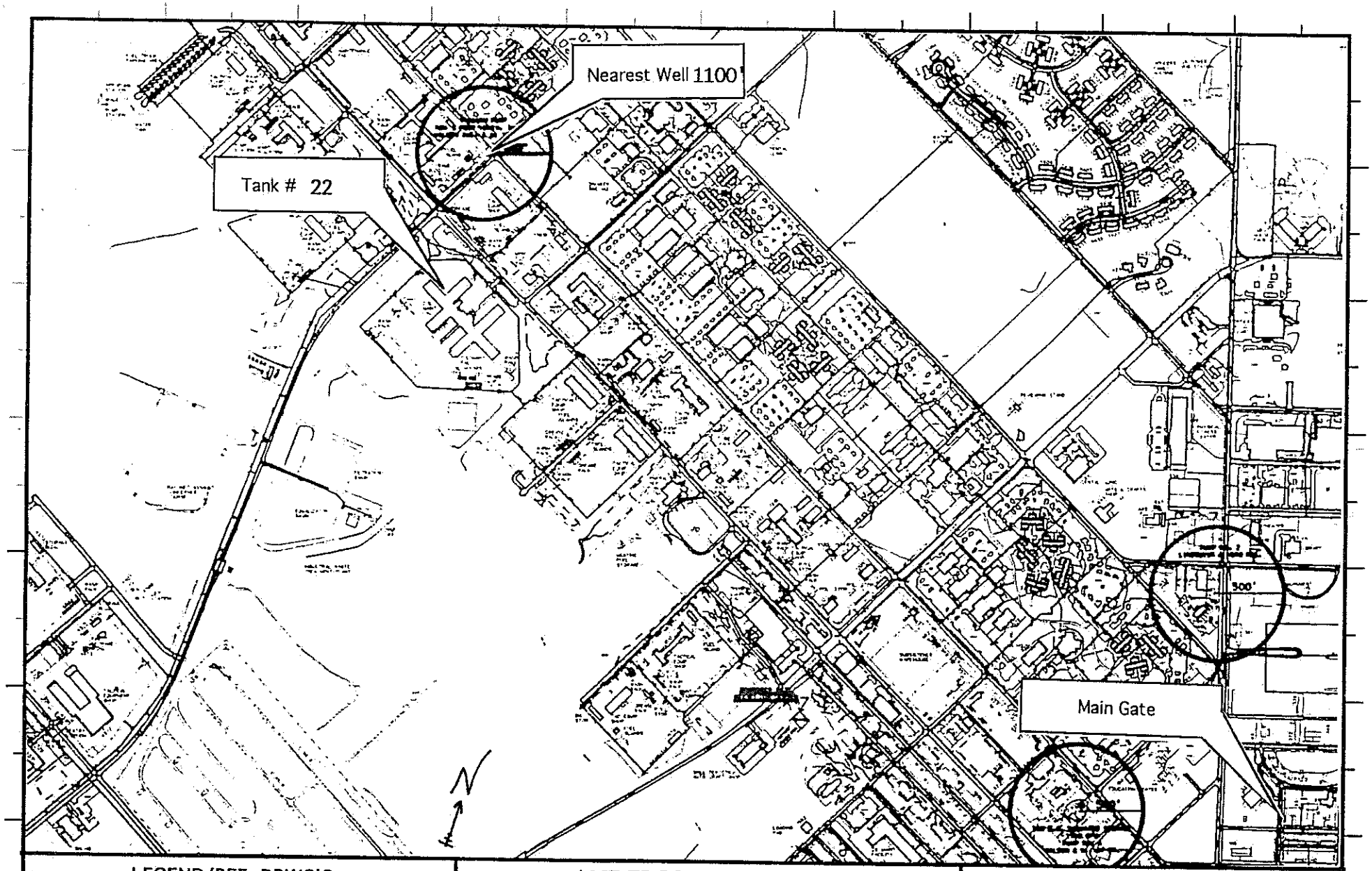
TRUCKER: Hendrix TRUCK NO. 50

DRIVER: S. Pope TICKET NO. 58825

VIP-1518-HV

TAB 10

FORT STEWART AREA MAP



LEGEND/REF. DRWG'S

Base map of Fort Stewart.

ANDERSON COLUMBIA
ENVIRONMENTAL, INC.
P. O. BOX 1386 LAKE CITY, FLORIDA 32056 (904) 755-1196

DR. AJR CH'D SRC DR. APP. DFB
ENGR. _____ ENGR'G DEPT. _____
DATE 9 Oct 96 SCALE 1"=1000'

Area Map for Tank # 22
Fort Stewart
Hinesville, Georgia

DRAWING NO.: FIGURE 1